

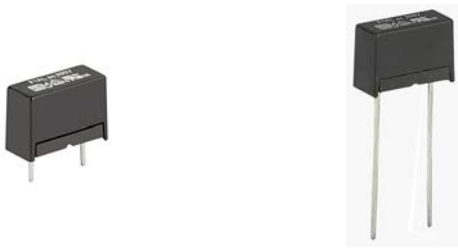
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Subminiature Fuse, 11.5 x 5 mm, Quick-Acting F



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](#)

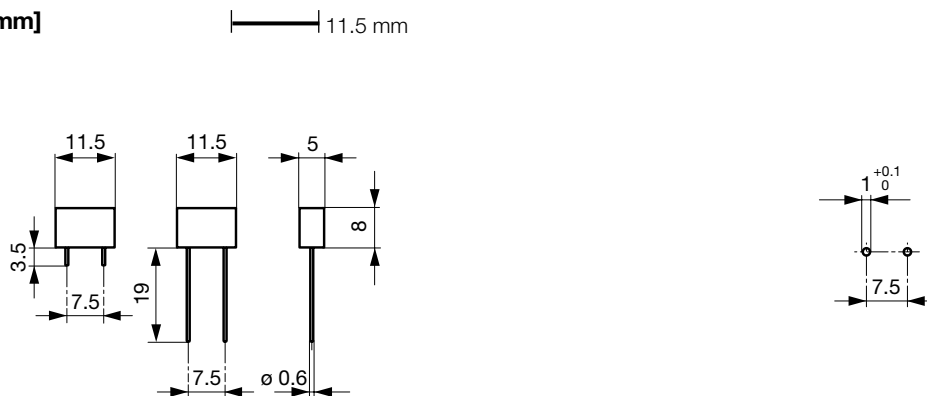
### Technical Data

|                              |  |
|------------------------------|--|
| 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<br><a href="#">Soldering Profile</a>           |
| 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]



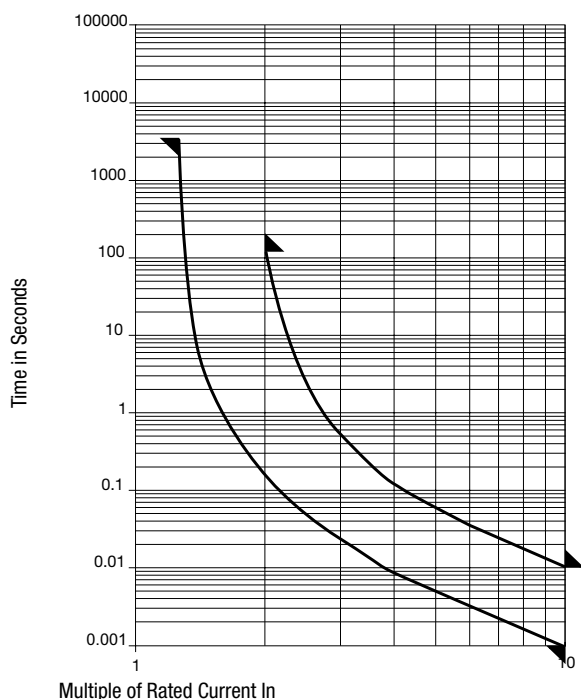
Drilling diagram

## 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 <sup>2</sup> t 10.0 $I_n$ typ. [A <sup>2</sup> 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 <sub>n</sub> typ. [mW] | Melting Pt 10.0 Intyp. [A <sup>2</sup> 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 <sub>n</sub> typ. [mV] | Power Dissipation 1.25 I <sub>n</sub> typ. [mW] | Melting I <sup>2</sup> t 10.0 Intyp. [A <sup>2</sup> 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.) |