

Subminiature Fuse, 8.5 mm, Quick-Acting F, 250 VAC, 250 VDC



## IEC 60127-3 · 250 VAC · Quick-Acting F



### Description

- Directly solderable on printed circuit boards
- Low Breaking Capacity

### Standards

- IEC 60127-3/3
- UL 248-14
- CSA C22.2 no. 248.14

### Approvals

- VDE Certificate Number: 101035
- UL File Number: E41599
- CSA File Number: 51172

### References

[Packaging Details](#)

Corresponding Fuseholder [FMS \(250V\)](#)

Fuse Kit [Fuse Kit Microfuse](#)

### Weblinks

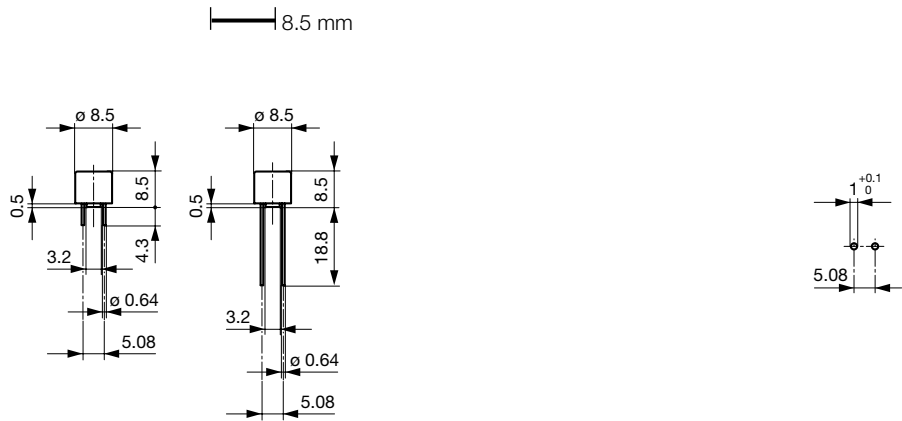
[pdf-datasheet](#), [html-datasheet](#), [General Product Information](#),  
[Approvals](#), [CE declaration of conformity](#), [RoHS](#), [CHINA-RoHS](#), [e-Shop](#),  
[SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#), [Detailed request for product](#)

### Technical Data

|                              |                                                                                                                                             |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| Rated Voltage                | 250 VAC                                                                                                                                     |
| Rated current                | 0.04 - 5 A                                                                                                                                  |
| Breaking Capacity            | 35 A                                                                                                                                        |
| 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                  | 0.5 g                                                                                                                                       |
| Storage Conditions           | 0 °C to 40 °C, max. 70% r.h.                                                                                                                |
| Product Marking              |  Type, Current, Rated voltage, Characteristic, Approvals |

|                              |                                                                        |
|------------------------------|------------------------------------------------------------------------|
| Soldering Methods            | Wave, Iron                                                             |
| Solderability                | 235 °C / 2 sec acc. to IEC 60068-2-20, Test Ta                         |
| Resistance to Soldering Heat | 260 °C / 10 sec acc. to IEC 60068-2-20, Test Tb                        |
| Resistance to Vibration      | acc. to IEC 60068-2-6, test Fc                                         |
| Current Carrying Capacity    | acc. to EIA/IS-722, Test 4.3.3                                         |
| Life Test                    | 1000h @ 0.60 x In @ 70°C<br>(acc. to EIA/IS-722, Test 4.4.1)           |
| Load Humidity Test           | 0.1 x In @ 0.85 r.H. @ 85°C<br>(acc. to EIA/IS-722, Test 4.4.2)        |
| Moisture Resistance Test     | (acc. to EIA/IS-722, Test 4.4.3)                                       |
| Terminal Strength            | Tensile load min. 9 N<br>(acc. to EIA/IS-722, Test 4.5.1)              |
| Thermal Shock                | MIL-STD-202, Method 107D<br>(200 air-to-air cycles from -55 to +125°C) |
| Case Resistance              | >100 MΩ (between leads and body)<br>acc. to EIA/IS-722, Test 4.7       |
| Mechanical Shock             | MIL-STD-202, Method 213B<br>(Shock 50g, half sine wave, 11 ms)         |
| Resistance to Solvents       | MIL-STD-202, Method 215A                                               |
| Flammability                 | UL 94V-0<br>(acc. to EIA/IS-722, Test 4.12)                            |

Dimension

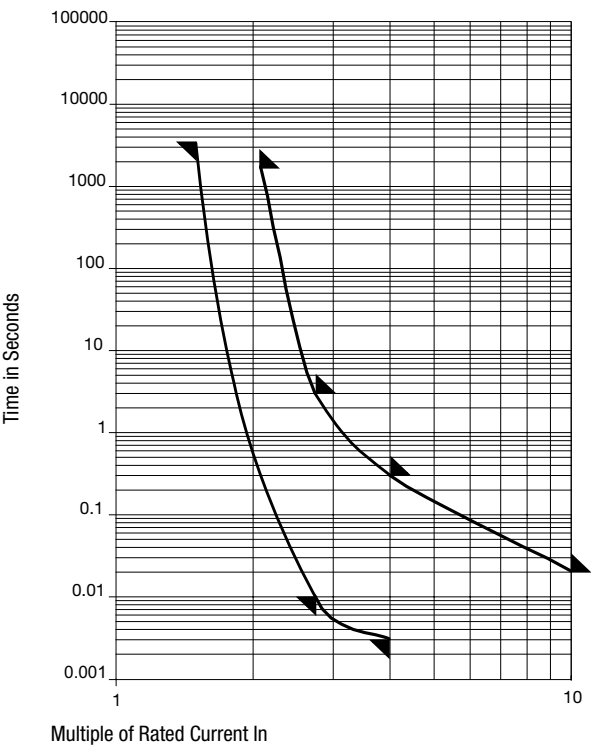


Drilling diagram

Pre-Arcing Time

| Rated Current In | 1.5 x In min. | 2.1 x In max. | 2.75 x In min. | 2.75 x In max. | 4.0 x In min. | 4.0 x In max. | 10.0 x In max. |
|------------------|---------------|---------------|----------------|----------------|---------------|---------------|----------------|
| 0.04 A - 5 A     | 60 min        | 30 min        | 10 ms          | 3 s            | 3 ms          | 300 ms        | 20 ms          |

Time-Current-Curves



## Variants

| Rated Current [A] | Rated Voltage [VAC] | Breaking Capacity | Voltage Drop 1.0 In max. [mV] | Voltage Drop 1.0 In typ. [mV] | Power Dissipation 1.5 I <sub>n</sub> max. [mW] | Melting I <sup>2</sup> t 10.0 Intyp. [A <sup>2</sup> s] |  | S | L | T | Order Number |
|-------------------|---------------------|-------------------|-------------------------------|-------------------------------|------------------------------------------------|---------------------------------------------------------|------------------------------------------------------------------------------------|---|---|---|--------------|
| 0.04              | 250                 | 1)                | -                             | 400                           | -                                              | 0.00016                                                 | ●                                                                                  | ● |   |   | 0034.6000    |
| 0.05              | 250                 | 1)                | 850                           | 460                           | 110                                            | 0.0004                                                  | ●                                                                                  | ● | ● | ● | 0034.6001    |
| 0.063             | 250                 | 1)                | 750                           | 330                           | 120                                            | 0.001                                                   | ●                                                                                  | ● | ● | ● | 0034.6002    |
| 0.08              | 250                 | 1)                | 650                           | 280                           | 140                                            | 0.001                                                   | ●                                                                                  | ● | ● | ● | 0034.6003    |
| 0.1               | 250                 | 1)                | 600                           | 300                           | 160                                            | 0.002                                                   | ●                                                                                  | ● | ● | ● | 0034.6004    |
| 0.125             | 250                 | 1)                | 550                           | 210                           | 180                                            | 0.006                                                   | ●                                                                                  | ● | ● | ● | 0034.6005    |
| 0.16              | 250                 | 1)                | 500                           | 460                           | 210                                            | 0.014                                                   | ●                                                                                  | ● | ● | ● | 0034.6006    |
| 0.2               | 250                 | 1)                | 480                           | 470                           | 250                                            | 0.024                                                   | ●                                                                                  | ● | ● | ● | 0034.6007    |
| 0.25              | 250                 | 1)                | 440                           | 360                           | 290                                            | 0.058                                                   | ●                                                                                  | ● | ● | ● | 0034.6008    |
| 0.315             | 250                 | 1)                | 400                           | 345                           | 330                                            | 0.104                                                   | ●                                                                                  | ● | ● | ● | 0034.6009    |
| 0.4               | 250                 | 1)                | 370                           | 80                            | 390                                            | 0.044                                                   | ●                                                                                  | ● | ● | ● | 0034.6010    |
| 0.5               | 250                 | 1)                | 350                           | 75                            | 460                                            | 0.09                                                    | ●                                                                                  | ● | ● | ● | 0034.6011    |
| 0.63              | 250                 | 1)                | 320                           | 70                            | 530                                            | 0.15                                                    | ●                                                                                  | ● | ● | ● | 0034.6012    |
| 0.8               | 250                 | 1)                | 300                           | 70                            | 630                                            | 0.22                                                    | ●                                                                                  | ● | ● | ● | 0034.6013    |
| 1                 | 250                 | 1)                | 280                           | 70                            | 740                                            | 0.33                                                    | ●                                                                                  | ● | ● | ● | 0034.6014    |
| 1.25              | 250                 | 1)                | 280                           | 65                            | 920                                            | 0.68                                                    | ●                                                                                  | ● | ● | ● | 0034.6015    |
| 1.6               | 250                 | 1)                | 250                           | 70                            | 1000                                           | 0.94                                                    | ●                                                                                  | ● | ● | ● | 0034.6016    |
| 2                 | 250                 | 1)                | 240                           | 70                            | 1360                                           | 1.3                                                     | ●                                                                                  | ● | ● | ● | 0034.6017    |
| 2.5               | 250                 | 1)                | 200                           | 65                            | 1310                                           | 1.9                                                     | ●                                                                                  | ● | ● | ● | 0034.6018    |
| 3.15              | 250                 | 1)                | 180                           | 65                            | 1490                                           | 5.4                                                     | ●                                                                                  | ● | ● | ● | 0034.6019    |
| 4                 | 250                 | 2)                | 160                           | 60                            | 1680                                           | 7.9                                                     | ●                                                                                  |   | ● |   | 0034.6020    |
| 5                 | 250                 | 2)                | 150                           | 60                            | 1970                                           | 11.2                                                    | ●                                                                                  |   | ● |   | 0034.6021    |
| 0.04              | 250                 | 1)                | -                             | 400                           | -                                              | 0.00016                                                 | ●                                                                                  |   |   | ● | 0034.6030    |
| 0.05              | 250                 | 1)                | 850                           | 460                           | 110                                            | 0.0004                                                  | ●                                                                                  | ● | ● | ● | 0034.6031    |
| 0.063             | 250                 | 1)                | 750                           | 330                           | 120                                            | 0.001                                                   | ●                                                                                  | ● | ● | ● | 0034.6032    |
| 0.08              | 250                 | 1)                | 650                           | 280                           | 140                                            | 0.001                                                   | ●                                                                                  | ● | ● | ● | 0034.6033    |
| 0.1               | 250                 | 1)                | 600                           | 300                           | 160                                            | 0.002                                                   | ●                                                                                  | ● | ● | ● | 0034.6034    |
| 0.125             | 250                 | 1)                | 550                           | 210                           | 180                                            | 0.006                                                   | ●                                                                                  | ● | ● | ● | 0034.6035    |
| 0.16              | 250                 | 1)                | 500                           | 460                           | 210                                            | 0.014                                                   | ●                                                                                  | ● | ● | ● | 0034.6036    |
| 0.2               | 250                 | 1)                | 480                           | 470                           | 250                                            | 0.024                                                   | ●                                                                                  | ● | ● | ● | 0034.6037    |
| 0.25              | 250                 | 1)                | 440                           | 360                           | 290                                            | 0.058                                                   | ●                                                                                  | ● | ● | ● | 0034.6038    |
| 0.315             | 250                 | 1)                | 400                           | 345                           | 330                                            | 0.104                                                   | ●                                                                                  | ● | ● | ● | 0034.6039    |
| 0.4               | 250                 | 1)                | 370                           | 80                            | 390                                            | 0.044                                                   | ●                                                                                  | ● | ● | ● | 0034.6040    |
| 0.5               | 250                 | 1)                | 350                           | 75                            | 460                                            | 0.09                                                    | ●                                                                                  | ● | ● | ● | 0034.6041    |
| 0.63              | 250                 | 1)                | 320                           | 70                            | 530                                            | 0.15                                                    | ●                                                                                  | ● | ● | ● | 0034.6042    |
| 0.8               | 250                 | 1)                | 300                           | 70                            | 630                                            | 0.22                                                    | ●                                                                                  | ● | ● | ● | 0034.6043    |
| 1                 | 250                 | 1)                | 280                           | 70                            | 740                                            | 0.33                                                    | ●                                                                                  | ● | ● | ● | 0034.6044    |
| 1.25              | 250                 | 1)                | 280                           | 65                            | 920                                            | 0.68                                                    | ●                                                                                  | ● | ● | ● | 0034.6045    |
| 1.6               | 250                 | 1)                | 250                           | 70                            | 1000                                           | 0.94                                                    | ●                                                                                  | ● | ● | ● | 0034.6046    |
| 2                 | 250                 | 1)                | 240                           | 70                            | 1360                                           | 1.3                                                     | ●                                                                                  | ● | ● | ● | 0034.6047    |
| 2.5               | 250                 | 1)                | 200                           | 65                            | 1310                                           | 1.9                                                     | ●                                                                                  | ● | ● | ● | 0034.6048    |
| 3.15              | 250                 | 1)                | 180                           | 65                            | 1490                                           | 5.4                                                     | ●                                                                                  | ● | ● | ● | 0034.6049    |
| 4                 | 250                 | 2)                | 160                           | 60                            | 1680                                           | 7.9                                                     | ●                                                                                  |   | ● |   | 0034.6050    |
| 5                 | 250                 | 2)                | 150                           | 60                            | 1970                                           | 11.2                                                    | ●                                                                                  |   | ● |   | 0034.6051    |
| 0.04              | 250                 | 1)                | -                             | 400                           | -                                              | 0.00016                                                 | ●                                                                                  |   |   | ● | 0034.6060    |
| 0.05              | 250                 | 1)                | 850                           | 460                           | 110                                            | 0.0004                                                  | ●                                                                                  | ● | ● | ● | 0034.6061    |
| 0.063             | 250                 | 1)                | 750                           | 330                           | 120                                            | 0.001                                                   | ●                                                                                  | ● | ● | ● | 0034.6062    |
| 0.08              | 250                 | 1)                | 650                           | 280                           | 140                                            | 0.001                                                   | ●                                                                                  | ● | ● | ● | 0034.6063    |
| 0.1               | 250                 | 1)                | 600                           | 300                           | 160                                            | 0.002                                                   | ●                                                                                  | ● | ● | ● | 0034.6064    |
| 0.125             | 250                 | 1)                | 550                           | 210                           | 180                                            | 0.006                                                   | ●                                                                                  | ● | ● | ● | 0034.6065    |
| 0.16              | 250                 | 1)                | 500                           | 460                           | 210                                            | 0.014                                                   | ●                                                                                  | ● | ● | ● | 0034.6066    |
| 0.2               | 250                 | 1)                | 480                           | 470                           | 250                                            | 0.024                                                   | ●                                                                                  | ● | ● | ● | 0034.6067    |
| 0.25              | 250                 | 1)                | 440                           | 360                           | 290                                            | 0.058                                                   | ●                                                                                  | ● | ● | ● | 0034.6068    |

| Rated Current [A] | Rated Voltage [VAC] | Breaking Capacity | Voltage Drop 1.0 In max. [mV] | Voltage Drop 1.0 In typ. [mV] | Power Dissipation 1.5 I <sub>n</sub> max. [mW] | Melting I <sup>2</sup> t 10.0 Intyp. [A <sup>2</sup> s] |  |  |  | S | L | T | Order Number |
|-------------------|---------------------|-------------------|-------------------------------|-------------------------------|------------------------------------------------|---------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---|---|---|--------------|
| 0.315             | 250                 | 1)                | 400                           | 345                           | 330                                            | 0.104                                                   | ●                                                                                 | ●                                                                                  | ●                                                                                   |   |   | ● | 0034.6069    |
| 0.4               | 250                 | 1)                | 370                           | 80                            | 390                                            | 0.044                                                   | ●                                                                                 | ●                                                                                  | ●                                                                                   |   |   | ● | 0034.6070    |
| 0.63              | 250                 | 1)                | 320                           | 70                            | 530                                            | 0.15                                                    | ●                                                                                 | ●                                                                                  | ●                                                                                   |   |   | ● | 0034.6072    |
| 0.8               | 250                 | 1)                | 300                           | 70                            | 630                                            | 0.22                                                    | ●                                                                                 | ●                                                                                  | ●                                                                                   |   |   | ● | 0034.6073    |
| 1                 | 250                 | 1)                | 280                           | 70                            | 740                                            | 0.33                                                    | ●                                                                                 | ●                                                                                  | ●                                                                                   |   |   | ● | 0034.6074    |
| 1.25              | 250                 | 1)                | 280                           | 65                            | 920                                            | 0.68                                                    | ●                                                                                 | ●                                                                                  | ●                                                                                   |   |   | ● | 0034.6075    |
| 1.6               | 250                 | 1)                | 250                           | 70                            | 1000                                           | 0.94                                                    | ●                                                                                 | ●                                                                                  | ●                                                                                   |   |   | ● | 0034.6076    |
| 2                 | 250                 | 1)                | 240                           | 70                            | 1360                                           | 1.3                                                     | ●                                                                                 | ●                                                                                  | ●                                                                                   |   |   | ● | 0034.6077    |
| 2.5               | 250                 | 1)                | 200                           | 65                            | 1310                                           | 1.9                                                     | ●                                                                                 | ●                                                                                  | ●                                                                                   |   |   | ● | 0034.6078    |
| 3.15              | 250                 | 1)                | 180                           | 65                            | 1490                                           | 5.4                                                     | ●                                                                                 | ●                                                                                  | ●                                                                                   |   |   | ● | 0034.6079    |
| 4                 | 250                 | 2)                | 160                           | 60                            | 1680                                           | 7.9                                                     |                                                                                   | ●                                                                                  |                                                                                     |   |   | ● | 0034.6080    |
| 5                 | 250                 | 2)                | 150                           | 60                            | 1970                                           | 11.2                                                    |                                                                                   | ●                                                                                  |                                                                                     |   |   | ● | 0034.6081    |

Most Popular.

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

1) 35 A @ 250 VAC

2) 10 In @ 250 VAC

|                       |     |                             |
|-----------------------|-----|-----------------------------|
| <b>Packaging Unit</b> | S = | Plastic Bag (100 pcs.)      |
|                       | L = | Bulk (100 pcs.)             |
|                       | T = | Taped 36 cm Reel (750 pcs.) |