

Subminiature Fuse, 8.5 mm, Time-Lag T, 250 VAC, cULus



## UL 248-14 · 250VAC · Time-Lag T



### Description

- Directly solderable on printed circuit boards
- Low Breaking Capacity

### Standards

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

### Approvals

- UL File Number: E41599
- CSA File Number: 51172

### References

[Packaging Details](#)

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

### 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](#)

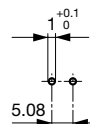
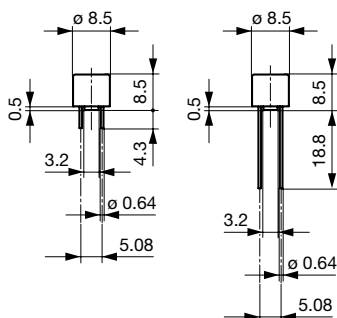
### Technical Data

|                              |                                                                                                                                             |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| Rated Voltage                | 250 VAC                                                                                                                                     |
| Rated current                | 0.063 - 10 A                                                                                                                                |
| Breaking Capacity            | 50 A                                                                                                                                        |
| Characteristic               | Time-Lag T                                                                                                                                  |
| 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                  | 0.53 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                 |
| Current Carrying Capacity    | acc. to EIA/IS-722, Test 4.3.3                                  |
| Moisture Resistance Test     | MIL-STD-202, Method 106E (50 cycles in a temp./mister chamber)  |
| Terminal Strength            | MIL-STD-202, Method 211A Deflection of board 1 mm for 1 minute  |
| Case Resistance              | acc. to EIA/IS-722, Test 4.7 >100 MΩ (between leads and body)   |
| Mechanical Shock             | (acc. to EIA/IS-722, Test 4.9)                                  |
| Vibration, High Frequency    | MIL-STD-202, Method 204D Shock 20 gn, 20 min, 10-2 kHz, 12 cyc. |
| Resistance to Solvents       | MIL-STD-202, Method 215A                                        |
| Flammability                 | UL 94V-0 (acc. to EIA/IS-722, Test 4.12)                        |

### Dimension

8.5 mm



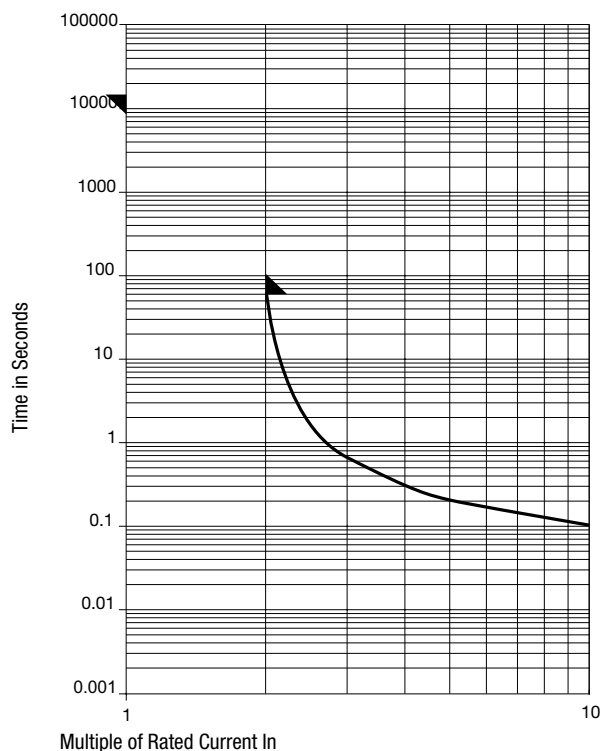
Drilling diagram

## Pre-Arcing Time

Rated Current  $I_n$     1.0 x  $I_n$  min.    2.0 x  $I_n$  max.

0.063 A - 10 A    4 h    60 s

## Time-Current-Curves



## Variants

| Rated Current [A] | Rated Voltage [VAC] | Breaking Capacity | Voltage Drop 1.0 $I_n$ typ. [mV] | Power Dissipation 1.0 $I_n$ typ. [mW] | Melting $I^2t$ 10.0 $I_n$ typ. [A <sup>2</sup> s] | $c(U_{LUS})$ | S | L | T | Order Number |
|-------------------|---------------------|-------------------|----------------------------------|---------------------------------------|---------------------------------------------------|--------------|---|---|---|--------------|
| 0.063             | 250                 | 1)                | 544                              | 37                                    | 0.0176                                            | ●            | ● |   |   | 0034.7103    |
| 0.08              | 250                 | 1)                | 413                              | 38                                    | 0.0313                                            | ●            | ● |   |   | 0034.7104    |
| 0.1               | 250                 | 1)                | 318                              | 35                                    | 0.0456                                            | ●            | ● |   |   | 0034.7105    |
| 0.125             | 250                 | 1)                | 289                              | 40                                    | 0.0567                                            | ●            | ● |   |   | 0034.7106    |
| 0.16              | 250                 | 1)                | 219                              | 38                                    | 0.0692                                            | ●            | ● |   |   | 0034.7107    |
| 0.2               | 250                 | 1)                | 262                              | 60                                    | 0.133                                             | ●            | ● |   |   | 0034.7108    |
| 0.25              | 250                 | 1)                | 202                              | 55                                    | 0.258                                             | ●            | ● |   |   | 0034.7109    |
| 0.315             | 250                 | 1)                | 168                              | 49                                    | 0.361                                             | ●            | ● |   |   | 0034.7110    |
| 0.4               | 250                 | 1)                | 159                              | 69                                    | 0.528                                             | ●            | ● |   |   | 0034.7111    |
| 0.5               | 250                 | 1)                | 143                              | 78                                    | 0.898                                             | ●            | ● |   |   | 0034.7112    |
| 0.63              | 250                 | 1)                | 124                              | 85                                    | 2.24                                              | ●            | ● |   |   | 0034.7113    |
| 0.8               | 250                 | 1)                | 114                              | 98                                    | 4.05                                              | ●            | ● |   |   | 0034.7114    |
| 1                 | 250                 | 1)                | 100                              | 107                                   | 6.85                                              | ●            | ● |   |   | 0034.7115    |
| 1.25              | 250                 | 1)                | 94                               | 127                                   | 7.93                                              | ●            | ● |   |   | 0034.7116    |
| 1.6               | 250                 | 1)                | 85                               | 145                                   | 17.5                                              | ●            | ● |   |   | 0034.7117    |
| 2                 | 250                 | 1)                | 80                               | 175                                   | 28.6                                              | ●            | ● |   |   | 0034.7118    |
| 2.5               | 250                 | 1)                | 75                               | 205                                   | 40.9                                              | ●            | ● |   |   | 0034.7119    |
| 3.15              | 250                 | 1)                | 71                               | 240                                   | 55                                                | ●            | ● |   |   | 0034.7120    |
| 4                 | 250                 | 1)                | 72                               | 303                                   | 67.2                                              | ●            | ● |   |   | 0034.7121    |
| 5                 | 250                 | 1)                | 70                               | 376                                   | 142                                               | ●            | ● |   |   | 0034.7122    |
| 6.3               | 250                 | 1)                | 68                               | 488                                   | 287                                               | ●            | ● |   |   | 0034.7123    |

| Rated Current [A] | Rated Voltage [VAC] | 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] |  | S | L | T | Order Number |
|-------------------|---------------------|-------------------|-------------------------------|------------------------------------|---------------------------------------------------------|-----------------------------------------------------------------------------------|---|---|---|--------------|
| 8                 | 250                 | 1)                | 50                            | 445                                | 422                                                     | ●                                                                                 | ● |   |   | 0034.7124    |
| 10                | 250                 | 1)                | 50                            | 630                                | 564                                                     | ●                                                                                 | ● |   |   | 0034.7125    |
| 0.063             | 250                 | 1)                | 544                           | 37                                 | 0.0176                                                  | ●                                                                                 |   | ● |   | 0034.7203    |
| 0.08              | 250                 | 1)                | 413                           | 38                                 | 0.0313                                                  | ●                                                                                 |   | ● |   | 0034.7204    |
| 0.1               | 250                 | 1)                | 318                           | 35                                 | 0.0456                                                  | ●                                                                                 |   | ● |   | 0034.7205    |
| 0.125             | 250                 | 1)                | 289                           | 40                                 | 0.0567                                                  | ●                                                                                 |   | ● |   | 0034.7206    |
| 0.16              | 250                 | 1)                | 219                           | 38                                 | 0.0692                                                  | ●                                                                                 |   | ● |   | 0034.7207    |
| 0.2               | 250                 | 1)                | 262                           | 60                                 | 0.133                                                   | ●                                                                                 |   | ● |   | 0034.7208    |
| 0.25              | 250                 | 1)                | 202                           | 55                                 | 0.258                                                   | ●                                                                                 |   | ● |   | 0034.7209    |
| 0.315             | 250                 | 1)                | 168                           | 49                                 | 0.361                                                   | ●                                                                                 |   | ● |   | 0034.7210    |
| 0.4               | 250                 | 1)                | 159                           | 69                                 | 0.528                                                   | ●                                                                                 |   | ● |   | 0034.7211    |
| 0.5               | 250                 | 1)                | 143                           | 78                                 | 0.898                                                   | ●                                                                                 |   | ● |   | 0034.7212    |
| 0.63              | 250                 | 1)                | 124                           | 85                                 | 2.24                                                    | ●                                                                                 |   | ● |   | 0034.7213    |
| 0.8               | 250                 | 1)                | 114                           | 98                                 | 4.05                                                    | ●                                                                                 |   | ● |   | 0034.7214    |
| 1                 | 250                 | 1)                | 100                           | 107                                | 6.85                                                    | ●                                                                                 |   | ● |   | 0034.7215    |
| 1.25              | 250                 | 1)                | 94                            | 127                                | 7.93                                                    | ●                                                                                 |   | ● |   | 0034.7216    |
| 1.6               | 250                 | 1)                | 85                            | 145                                | 17.5                                                    | ●                                                                                 |   | ● |   | 0034.7217    |
| 2                 | 250                 | 1)                | 80                            | 175                                | 28.6                                                    | ●                                                                                 |   | ● |   | 0034.7218    |
| 2.5               | 250                 | 1)                | 75                            | 205                                | 40.9                                                    | ●                                                                                 |   | ● |   | 0034.7219    |
| 3.15              | 250                 | 1)                | 71                            | 240                                | 55                                                      | ●                                                                                 |   | ● |   | 0034.7220    |
| 4                 | 250                 | 1)                | 72                            | 303                                | 67.2                                                    | ●                                                                                 |   | ● |   | 0034.7221    |
| 5                 | 250                 | 1)                | 70                            | 376                                | 142                                                     | ●                                                                                 |   | ● |   | 0034.7222    |
| 6.3               | 250                 | 1)                | 68                            | 488                                | 287                                                     | ●                                                                                 |   | ● |   | 0034.7223    |
| 8                 | 250                 | 1)                | 50                            | 445                                | 422                                                     | ●                                                                                 |   | ● |   | 0034.7224    |
| 10                | 250                 | 1)                | 50                            | 630                                | 564                                                     | ●                                                                                 |   | ● |   | 0034.7225    |
| 0.063             | 250                 | 1)                | 544                           | 37                                 | 0.0176                                                  | ●                                                                                 |   |   | ● | 0034.7303    |
| 0.08              | 250                 | 1)                | 413                           | 38                                 | 0.0313                                                  | ●                                                                                 |   |   | ● | 0034.7304    |
| 0.1               | 250                 | 1)                | 318                           | 35                                 | 0.0456                                                  | ●                                                                                 |   |   | ● | 0034.7305    |
| 0.125             | 250                 | 1)                | 289                           | 40                                 | 0.0567                                                  | ●                                                                                 |   |   | ● | 0034.7306    |
| 0.16              | 250                 | 1)                | 219                           | 38                                 | 0.0692                                                  | ●                                                                                 |   |   | ● | 0034.7307    |
| 0.2               | 250                 | 1)                | 262                           | 60                                 | 0.133                                                   | ●                                                                                 |   |   | ● | 0034.7308    |
| 0.25              | 250                 | 1)                | 202                           | 55                                 | 0.258                                                   | ●                                                                                 |   |   | ● | 0034.7309    |
| 0.315             | 250                 | 1)                | 168                           | 49                                 | 0.361                                                   | ●                                                                                 |   |   | ● | 0034.7310    |
| 0.4               | 250                 | 1)                | 159                           | 69                                 | 0.528                                                   | ●                                                                                 |   |   | ● | 0034.7311    |
| 0.5               | 250                 | 1)                | 143                           | 78                                 | 0.898                                                   | ●                                                                                 |   |   | ● | 0034.7312    |
| 0.63              | 250                 | 1)                | 124                           | 85                                 | 2.24                                                    | ●                                                                                 |   |   | ● | 0034.7313    |
| 0.8               | 250                 | 1)                | 114                           | 98                                 | 4.05                                                    | ●                                                                                 |   |   | ● | 0034.7314    |
| 1                 | 250                 | 1)                | 100                           | 107                                | 6.85                                                    | ●                                                                                 |   |   | ● | 0034.7315    |
| 1.25              | 250                 | 1)                | 94                            | 127                                | 7.93                                                    | ●                                                                                 |   |   | ● | 0034.7316    |
| 1.6               | 250                 | 1)                | 85                            | 145                                | 17.5                                                    | ●                                                                                 |   |   | ● | 0034.7317    |
| 2                 | 250                 | 1)                | 80                            | 175                                | 28.6                                                    | ●                                                                                 |   |   | ● | 0034.7318    |
| 2.5               | 250                 | 1)                | 75                            | 205                                | 40.9                                                    | ●                                                                                 |   |   | ● | 0034.7319    |
| 3.15              | 250                 | 1)                | 71                            | 240                                | 55                                                      | ●                                                                                 |   |   | ● | 0034.7320    |
| 4                 | 250                 | 1)                | 72                            | 303                                | 67.2                                                    | ●                                                                                 |   |   | ● | 0034.7321    |
| 5                 | 250                 | 1)                | 70                            | 376                                | 142                                                     | ●                                                                                 |   |   | ● | 0034.7322    |
| 6.3               | 250                 | 1)                | 68                            | 488                                | 287                                                     | ●                                                                                 |   |   | ● | 0034.7323    |
| 8                 | 250                 | 1)                | 50                            | 445                                | 422                                                     | ●                                                                                 |   |   | ● | 0034.7324    |
| 10                | 250                 | 1)                | 50                            | 630                                | 564                                                     | ●                                                                                 |   |   | ● | 0034.7325    |

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

1) 50 A @ 250 VAC

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