

Subminiature Fuse, 8.5 mm, Time-Lag T, 250 VAC, 63 VDC



IEC 60127-3 · 250 VAC · Time-Lag T



### Description

- Directly solderable on printed circuit boards
- Low Breaking Capacity

### Standards

- IEC 60127-3/4
- UL 248-14
- CSA C22.2 no. 248.14
- Telcordia GR-1089
- UL 60950 / IEC 60950
- ITU-T K.20 and K.21
- TIA-968-A

### Approvals

- VDE Certificate Number: 40002080
- UL File Number: E41599
- CSA File Number: 51172

### Applications

- Primary Protection on PCB
- Power Supply Adapter for e.g. laptops
- SMPS (Switching Mode Power Supply) for TV's and DVD's

### References

#### Packaging Details

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

Fuse Kit [Fuse Kit MST250 / MSF 250](#)

### Weblinks

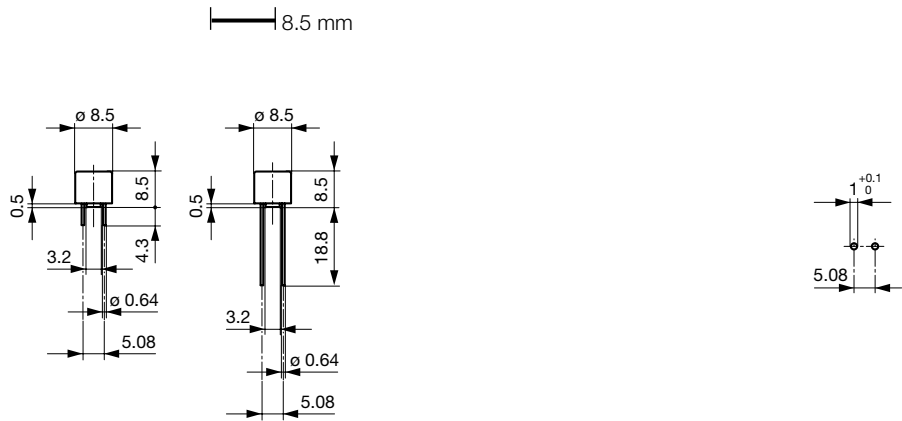
[pdf-datasheet](#), [html-datasheet](#), [General Product Information](#), [Approvals](#), [CE declaration of conformity](#), [RoHS](#), [CHINA-RoHS](#), [REACH](#), [e-Shop](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#), [Detailed request for product](#)

### Technical Data

|                              |                                                                                                                                                   |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| Rated Voltage                | 250 VAC, 63 VDC                                                                                                                                   |
| Rated current                | 0.05 - 6.3 A                                                                                                                                      |
| Breaking Capacity            | 35 A - 63 A                                                                                                                                       |
| Characteristic               | Time-Lag T                                                                                                                                        |
| Mounting                     | PCB, THT                                                                                                                                          |
| Admissible Ambient Air Temp. | -55 °C to 125 °C                                                                                                                                  |
| Climatic Category            | 55/125/21 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, Rated 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            | Tensile load min. 9 N (acc. to EIA/IS-722, Test 4.5.1)                 |
| Case Resistance              | acc. to EIA/IS-722, Test 4.7 >100 MΩ (between leads and body)          |
| Mechanical Shock             | MIL-STD-202, Method 213B (Shock 50g, half sine wave, 11 ms)            |
| Vibration, High Frequency    | Shock 20 gn, 20 min, 10-2 kHz, 12 cyc. (acc. to EIA/IS-722, Test 4.10) |
| Resistance to Solvents       | MIL-STD-202, Method 215A                                               |
| Flammability                 | UL 94V-0 (acc. to EIA/IS-722, Test 4.12)                               |

Dimension

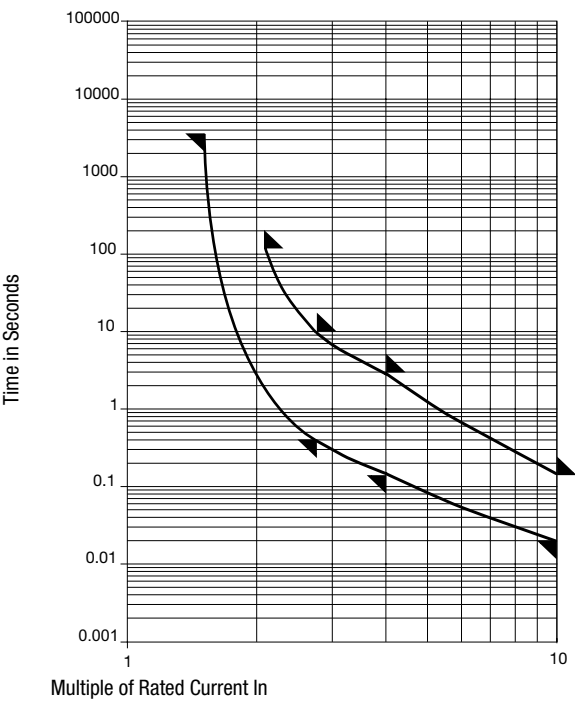


Drilling diagram

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 min. | 10.0 x In max. |
|------------------|---------------|---------------|----------------|----------------|---------------|---------------|----------------|----------------|
| 0.05 A - 6.3 A   | 60 min        | 120 s         | 400 ms         | 10 s           | 150 ms        | 3 s           | 20 ms          | 150 ms         |

Time-Current-Curves



## All 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 |
|-------------------|---------------------|-------------------|-------------------------------|-------------------------------|------------------------------------------------|---------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---|---|---|--------------|
| 0.05              | 250                 | 1)                | 550                           | 415                           | 155                                            | 0.03                                                    | ●                                                                                 |                                                                                   | ●                                                                                  |                                                                                     | ●                                                                                   | ●                                                                                   | ●                                                                                   |   |   |   | 0034.6602    |
| 0.063             | 250                 | 1)                | 480                           | 420                           | 160                                            | 0.05                                                    | ●                                                                                 |                                                                                   | ●                                                                                  |                                                                                     | ●                                                                                   | ●                                                                                   | ●                                                                                   |   |   |   | 0034.6603    |
| 0.08              | 250                 | 1)                | 400                           | 360                           | 165                                            | 0.06                                                    | ●                                                                                 |                                                                                   | ●                                                                                  |                                                                                     | ●                                                                                   | ●                                                                                   | ●                                                                                   |   |   |   | 0034.6604    |
| 0.1               | 250                 | 1)                | 350                           | 320                           | 170                                            | 0.08                                                    | ●                                                                                 |                                                                                   | ●                                                                                  |                                                                                     | ●                                                                                   | ●                                                                                   | ●                                                                                   |   |   |   | 0034.6605    |
| 0.125             | 250                 | 1)                | 300                           | 270                           | 180                                            | 0.12                                                    | ●                                                                                 |                                                                                   | ●                                                                                  |                                                                                     | ●                                                                                   | ●                                                                                   | ●                                                                                   |   |   |   | 0034.6606    |
| 0.16              | 250                 | 1)                | 280                           | 190                           | 190                                            | 0.24                                                    | ●                                                                                 |                                                                                   | ●                                                                                  |                                                                                     | ●                                                                                   | ●                                                                                   | ●                                                                                   |   |   |   | 0034.6607    |
| 0.2               | 250                 | 1)                | 260                           | 150                           | 200                                            | 0.35                                                    | ●                                                                                 |                                                                                   | ●                                                                                  |                                                                                     | ●                                                                                   | ●                                                                                   | ●                                                                                   |   |   |   | 0034.6608    |
| 0.25              | 250                 | 1)                | 240                           | 120                           | 220                                            | 0.6                                                     | ●                                                                                 |                                                                                   | ●                                                                                  |                                                                                     | ●                                                                                   | ●                                                                                   | ●                                                                                   |   |   |   | 0034.6609    |
| 0.315             | 250                 | 1)                | 220                           | 120                           | 250                                            | 0.8                                                     | ●                                                                                 |                                                                                   | ●                                                                                  |                                                                                     | ●                                                                                   | ●                                                                                   | ●                                                                                   |   |   |   | 0034.6610    |
| 0.4               | 250                 | 1)                | 200                           | 110                           | 280                                            | 1.1                                                     | ●                                                                                 |                                                                                   | ●                                                                                  |                                                                                     | ●                                                                                   | ●                                                                                   | ●                                                                                   |   |   |   | 0034.6611    |
| 0.5               | 250                 | 1)                | 190                           | 100                           | 310                                            | 2.5                                                     | ●                                                                                 |                                                                                   | ●                                                                                  |                                                                                     | ●                                                                                   | ●                                                                                   | ●                                                                                   |   |   |   | 0034.6612    |
| 0.63              | 250                 | 1)                | 180                           | 90                            | 360                                            | 4                                                       | ●                                                                                 |                                                                                   | ●                                                                                  |                                                                                     | ●                                                                                   | ●                                                                                   | ●                                                                                   |   |   |   | 0034.6613    |
| 0.8               | 250                 | 1)                | 160                           | 80                            | 430                                            | 8                                                       | ●                                                                                 |                                                                                   | ●                                                                                  |                                                                                     | ●                                                                                   | ●                                                                                   | ●                                                                                   |   |   |   | 0034.6614    |
| 1                 | 250                 | 1)                | 140                           | 70                            | 500                                            | 12                                                      | ●                                                                                 |                                                                                   | ●                                                                                  | ●                                                                                   | ●                                                                                   | ●                                                                                   | ●                                                                                   |   |   |   | 0034.6615    |
| 1.25              | 250                 | 1)                | 130                           | 70                            | 600                                            | 15                                                      | ●                                                                                 |                                                                                   | ●                                                                                  | ●                                                                                   | ●                                                                                   | ●                                                                                   | ●                                                                                   |   |   |   | 0034.6616    |
| 1.6               | 250                 | 1)                | 120                           | 60                            | 730                                            | 30                                                      | ●                                                                                 |                                                                                   | ●                                                                                  | ●                                                                                   | ●                                                                                   | ●                                                                                   | ●                                                                                   |   |   |   | 0034.6617    |
| 2                 | 250                 | 1)                | 100                           | 60                            | 870                                            | 34                                                      | ●                                                                                 |                                                                                   | ●                                                                                  | ●                                                                                   | ●                                                                                   | ●                                                                                   | ●                                                                                   |   |   |   | 0034.6618    |
| 2.5               | 250                 | 1)                | 100                           | 50                            | 1000                                           | 55                                                      | ●                                                                                 |                                                                                   | ●                                                                                  | ●                                                                                   | ●                                                                                   | ●                                                                                   | ●                                                                                   |   |   |   | 0034.6619    |
| 3.15              | 250                 | 1)                | 100                           | 50                            | 1200                                           | 76                                                      | ●                                                                                 |                                                                                   | ●                                                                                  | ●                                                                                   | ●                                                                                   | ●                                                                                   | ●                                                                                   |   |   |   | 0034.6620    |
| 4                 | 250                 | 2)                | 100                           | 50                            | 1400                                           | 80                                                      | ●                                                                                 |                                                                                   | ●                                                                                  | ●                                                                                   | ●                                                                                   | ●                                                                                   | ●                                                                                   |   |   |   | 0034.6621    |
| 5                 | 250                 | 3)                | -                             | 50                            | -                                              | 230                                                     |                                                                                   | ●                                                                                 | ●                                                                                  | ●                                                                                   |                                                                                     |                                                                                     | ●                                                                                   | ● |   |   | 0034.6622    |
| 6.3               | 250                 | 3)                | -                             | 45                            | -                                              | 360                                                     |                                                                                   | ●                                                                                 | ●                                                                                  |                                                                                     |                                                                                     |                                                                                     | ●                                                                                   | ● |   |   | 0034.6623    |
| 0.05              | 250                 | 1)                | 550                           | 415                           | 155                                            | 0.03                                                    | ●                                                                                 |                                                                                   | ●                                                                                  |                                                                                     | ●                                                                                   | ●                                                                                   |                                                                                     |   |   |   | 0034.6702    |
| 0.063             | 250                 | 1)                | 480                           | 420                           | 160                                            | 0.05                                                    | ●                                                                                 |                                                                                   | ●                                                                                  |                                                                                     | ●                                                                                   | ●                                                                                   |                                                                                     |   |   |   | 0034.6703    |
| 0.08              | 250                 | 1)                | 400                           | 360                           | 165                                            | 0.06                                                    | ●                                                                                 |                                                                                   | ●                                                                                  |                                                                                     | ●                                                                                   | ●                                                                                   |                                                                                     |   |   |   | 0034.6704    |
| 0.1               | 250                 | 1)                | 350                           | 320                           | 170                                            | 0.08                                                    | ●                                                                                 |                                                                                   | ●                                                                                  |                                                                                     | ●                                                                                   | ●                                                                                   |                                                                                     |   |   |   | 0034.6705    |
| 0.125             | 250                 | 1)                | 300                           | 270                           | 180                                            | 0.12                                                    | ●                                                                                 |                                                                                   | ●                                                                                  |                                                                                     | ●                                                                                   | ●                                                                                   |                                                                                     |   |   |   | 0034.6706    |
| 0.16              | 250                 | 1)                | 280                           | 190                           | 190                                            | 0.24                                                    | ●                                                                                 |                                                                                   | ●                                                                                  |                                                                                     | ●                                                                                   | ●                                                                                   |                                                                                     |   |   |   | 0034.6707    |
| 0.2               | 250                 | 1)                | 260                           | 150                           | 200                                            | 0.35                                                    | ●                                                                                 |                                                                                   | ●                                                                                  |                                                                                     | ●                                                                                   | ●                                                                                   |                                                                                     |   |   |   | 0034.6708    |
| 0.25              | 250                 | 1)                | 240                           | 120                           | 220                                            | 0.6                                                     | ●                                                                                 |                                                                                   | ●                                                                                  |                                                                                     | ●                                                                                   | ●                                                                                   |                                                                                     |   |   |   | 0034.6709    |
| 0.315             | 250                 | 1)                | 220                           | 120                           | 250                                            | 0.8                                                     | ●                                                                                 |                                                                                   | ●                                                                                  |                                                                                     | ●                                                                                   | ●                                                                                   |                                                                                     |   |   |   | 0034.6710    |
| 0.4               | 250                 | 1)                | 200                           | 110                           | 280                                            | 1.1                                                     | ●                                                                                 |                                                                                   | ●                                                                                  |                                                                                     | ●                                                                                   | ●                                                                                   |                                                                                     |   |   |   | 0034.6711    |
| 0.5               | 250                 | 1)                | 190                           | 100                           | 310                                            | 2.5                                                     | ●                                                                                 |                                                                                   | ●                                                                                  |                                                                                     | ●                                                                                   | ●                                                                                   |                                                                                     |   |   |   | 0034.6712    |
| 0.63              | 250                 | 1)                | 180                           | 90                            | 360                                            | 4                                                       | ●                                                                                 |                                                                                   | ●                                                                                  |                                                                                     | ●                                                                                   | ●                                                                                   |                                                                                     |   |   |   | 0034.6713    |
| 0.8               | 250                 | 1)                | 160                           | 80                            | 430                                            | 8                                                       | ●                                                                                 |                                                                                   | ●                                                                                  |                                                                                     | ●                                                                                   | ●                                                                                   |                                                                                     |   |   |   | 0034.6714    |
| 1                 | 250                 | 1)                | 140                           | 70                            | 500                                            | 12                                                      | ●                                                                                 |                                                                                   | ●                                                                                  | ●                                                                                   | ●                                                                                   | ●                                                                                   |                                                                                     |   |   |   | 0034.6715    |
| 1.25              | 250                 | 1)                | 130                           | 70                            | 600                                            | 15                                                      | ●                                                                                 |                                                                                   | ●                                                                                  | ●                                                                                   | ●                                                                                   | ●                                                                                   |                                                                                     |   |   |   | 0034.6716    |
| 1.6               | 250                 | 1)                | 120                           | 60                            | 730                                            | 30                                                      | ●                                                                                 |                                                                                   | ●                                                                                  | ●                                                                                   | ●                                                                                   | ●                                                                                   |                                                                                     |   |   |   | 0034.6717    |
| 2                 | 250                 | 1)                | 100                           | 60                            | 870                                            | 34                                                      | ●                                                                                 |                                                                                   | ●                                                                                  | ●                                                                                   | ●                                                                                   | ●                                                                                   |                                                                                     |   |   |   | 0034.6718    |
| 2.5               | 250                 | 1)                | 100                           | 50                            | 1000                                           | 55                                                      | ●                                                                                 |                                                                                   | ●                                                                                  | ●                                                                                   | ●                                                                                   | ●                                                                                   |                                                                                     |   |   |   | 0034.6719    |
| 3.15              | 250                 | 1)                | 100                           | 50                            | 1200                                           | 76                                                      | ●                                                                                 |                                                                                   | ●                                                                                  | ●                                                                                   | ●                                                                                   | ●                                                                                   |                                                                                     |   |   |   | 0034.6720    |
| 4                 | 250                 | 2)                | 100                           | 50                            | 1400                                           | 80                                                      | ●                                                                                 |                                                                                   | ●                                                                                  | ●                                                                                   | ●                                                                                   | ●                                                                                   |                                                                                     |   |   |   | 0034.6721    |
| 5                 | 250                 | 3)                | -                             | 50                            | -                                              | 230                                                     |                                                                                   | ●                                                                                 | ●                                                                                  | ●                                                                                   |                                                                                     |                                                                                     | ●                                                                                   | ● |   |   | 0034.6722    |
| 6.3               | 250                 | 3)                | -                             | 45                            | -                                              | 360                                                     |                                                                                   | ●                                                                                 | ●                                                                                  |                                                                                     |                                                                                     |                                                                                     | ●                                                                                   | ● |   |   | 0034.6723    |
| 0.05              | 250                 | 1)                | 550                           | 415                           | 155                                            | 0.03                                                    | ●                                                                                 |                                                                                   | ●                                                                                  |                                                                                     | ●                                                                                   | ●                                                                                   |                                                                                     |   |   |   | 0034.6802    |
| 0.063             | 250                 | 1)                | 480                           | 420                           | 160                                            | 0.05                                                    | ●                                                                                 |                                                                                   | ●                                                                                  |                                                                                     | ●                                                                                   | ●                                                                                   |                                                                                     |   |   |   | 0034.6803    |
| 0.08              | 250                 | 1)                | 400                           | 360                           | 165                                            | 0.06                                                    | ●                                                                                 |                                                                                   | ●                                                                                  |                                                                                     | ●                                                                                   | ●                                                                                   |                                                                                     |   |   |   | 0034.6804    |
| 0.1               | 250                 | 1)                | 350                           | 320                           | 170                                            | 0.08                                                    | ●                                                                                 |                                                                                   | ●                                                                                  |                                                                                     | ●                                                                                   | ●                                                                                   |                                                                                     |   |   |   | 0034.6805    |
| 0.125             | 250                 | 1)                | 300                           | 270                           | 180                                            | 0.12                                                    | ●                                                                                 |                                                                                   | ●                                                                                  |                                                                                     | ●                                                                                   | ●                                                                                   |                                                                                     |   |   |   | 0034.6806    |
| 0.16              | 250                 | 1)                | 280                           | 190                           | 190                                            | 0.24                                                    | ●                                                                                 |                                                                                   | ●                                                                                  |                                                                                     | ●                                                                                   | ●                                                                                   |                                                                                     |   |   |   | 0034.6807    |
| 0.2               | 250                 | 1)                | 260                           | 150                           | 200                                            | 0.35                                                    | ●                                                                                 |                                                                                   | ●                                                                                  |                                                                                     | ●                                                                                   | ●                                                                                   |                                                                                     |   |   |   | 0034.6808    |
| 0.25              | 250                 | 1)                | 240                           | 120                           | 220                                            | 0.6                                                     | ●                                                                                 |                                                                                   | ●                                                                                  |                                                                                     | ●                                                                                   | ●                                                                                   |                                                                                     |   |   |   | 0034.6809    |
| 0.315             | 250                 | 1)                | 220                           | 120                           | 250                                            | 0.8                                                     | ●                                                                                 |                                                                                   | ●                                                                                  |                                                                                     | ●                                                                                   | ●                                                                                   |                                                                                     |   |   |   | 0034.6810    |

| Rated Cur-<br>rent [A] | Rated Vol-<br>tage [VAC] | Breaking<br>Capacity | Voltage Drop<br>1.0 I <sub>n</sub> max.<br>[mV] | Voltage Drop<br>1.0 I <sub>n</sub> typ.<br>[mV] | Power Dissi-<br>pation 1.5 I <sub>n</sub><br>max. [mW] | Melting P <sub>t</sub><br>10.0 Intyp.<br>[A²s] |  |  |  |  |  |  | S | L | T | Order Number |           |
|------------------------|--------------------------|----------------------|-------------------------------------------------|-------------------------------------------------|--------------------------------------------------------|------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---|---|---|--------------|-----------|
| 0.4                    | 250                      | 1)                   | 200                                             | 110                                             | 280                                                    | 1.1                                            | ●                                                                                 |                                                                                   | ●                                                                                  |                                                                                     | ●                                                                                   | ●                                                                                   |   |   |   | ●            | 0034.6811 |
| 0.5                    | 250                      | 1)                   | 190                                             | 100                                             | 310                                                    | 2.5                                            | ●                                                                                 |                                                                                   | ●                                                                                  |                                                                                     | ●                                                                                   | ●                                                                                   |   |   |   | ●            | 0034.6812 |
| 0.63                   | 250                      | 1)                   | 180                                             | 90                                              | 360                                                    | 4                                              | ●                                                                                 |                                                                                   | ●                                                                                  |                                                                                     | ●                                                                                   | ●                                                                                   |   |   |   | ●            | 0034.6813 |
| 0.8                    | 250                      | 1)                   | 160                                             | 80                                              | 430                                                    | 8                                              | ●                                                                                 |                                                                                   | ●                                                                                  |                                                                                     | ●                                                                                   | ●                                                                                   |   |   |   | ●            | 0034.6814 |
| 1                      | 250                      | 1)                   | 140                                             | 70                                              | 500                                                    | 12                                             | ●                                                                                 |                                                                                   | ●                                                                                  | ●                                                                                   | ●                                                                                   | ●                                                                                   |   |   |   | ●            | 0034.6815 |
| 1.25                   | 250                      | 1)                   | 130                                             | 70                                              | 600                                                    | 15                                             | ●                                                                                 |                                                                                   | ●                                                                                  | ●                                                                                   | ●                                                                                   | ●                                                                                   |   |   |   | ●            | 0034.6816 |
| 1.6                    | 250                      | 1)                   | 120                                             | 60                                              | 730                                                    | 30                                             | ●                                                                                 |                                                                                   | ●                                                                                  | ●                                                                                   | ●                                                                                   | ●                                                                                   |   |   |   | ●            | 0034.6817 |
| 2                      | 250                      | 1)                   | 100                                             | 60                                              | 870                                                    | 34                                             | ●                                                                                 |                                                                                   | ●                                                                                  | ●                                                                                   | ●                                                                                   | ●                                                                                   |   |   |   | ●            | 0034.6818 |
| 2.5                    | 250                      | 1)                   | 100                                             | 50                                              | 1000                                                   | 55                                             | ●                                                                                 |                                                                                   | ●                                                                                  | ●                                                                                   | ●                                                                                   | ●                                                                                   |   |   |   | ●            | 0034.6819 |
| 3.15                   | 250                      | 1)                   | 100                                             | 50                                              | 1200                                                   | 76                                             | ●                                                                                 |                                                                                   | ●                                                                                  | ●                                                                                   | ●                                                                                   | ●                                                                                   |   |   |   | ●            | 0034.6820 |
| 4                      | 250                      | 2)                   | 100                                             | 50                                              | 1400                                                   | 80                                             | ●                                                                                 |                                                                                   | ●                                                                                  | ●                                                                                   | ●                                                                                   | ●                                                                                   |   |   |   | ●            | 0034.6821 |
| 5                      | 250                      | 3)                   | -                                               | 50                                              | -                                                      | 230                                            |                                                                                   | ●                                                                                 | ●                                                                                  | ●                                                                                   |                                                                                     |                                                                                     | ● |   |   | ●            | 0034.6822 |
| 6.3                    | 250                      | 3)                   | -                                               | 45                                              | -                                                      | 360                                            |                                                                                   | ●                                                                                 | ●                                                                                  |                                                                                     |                                                                                     |                                                                                     | ● |   |   | ●            | 0034.6823 |

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1) IEC: 35 A @ 250 VAC

1) UL: 35 A @ 250 VAC / 50 A @ 63 VDC

2) IEC: 10 In @ 250 VAC

2) UL: 10 In @ 250 VAC / 50 A @ 63 VDC

3) IEC: 10 In @ 250 VAC

3) UL: 10 In @ 250 VAC / 10 In @ 63 VDC

#### Packaging Unit

S = Plastic Bag (100 pcs.)  
L = Bulk (100 pcs.)  
T = Taped 36 cm Reel (750 pcs.)