

Miniature Fuse with Pigtail, 5.4 x 22.5 mm, Time-Lag T, H, 250 VAC, UL: 115 - 300 VDC



IEC 60127-2 · 250VAC · 300VDC · Time-Lag T



### Description

- IEC Standard Fuse
- H = High Breaking Capacity (Ceramic Tube)

### Standards

- IEC 60127-2/5
- UL 248-14
- CSA C22.2 no. 248.14

### Approvals

- UL File Number: E41599

### 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](#)

### Weblinks

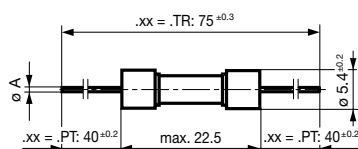
[pdf datasheet](#), [html-datasheet](#), [General Product Information](#), [Packaging details](#), [Approvals](#), [CE declaration of conformity](#), [RoHS](#), [CHINA-RoHS](#), [REACH](#), [Distributor-Stock-Check](#), [Detailed request for product](#)

### Technical Data

|                              |                                                                                                                                                                  |
|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Rated Voltage                | 250VAC 300VDC                                                                                                                                                    |
| Rated current                | 0.5 - 16A                                                                                                                                                        |
| Breaking Capacity            | 500A - 1500A                                                                                                                                                     |
| Characteristic               | Time-Lag T                                                                                                                                                       |
| Admissible Ambient Air Temp. | -55 °C to 125 °C                                                                                                                                                 |
| Climatic Category            | 55/125/21 acc. to IEC 60068-1                                                                                                                                    |
| Material: Tube               | Ceramic                                                                                                                                                          |
| Material: Endcaps            | Nickel-Plated Copper Alloy                                                                                                                                       |
| Material: Axial Leads        | Tin-Plated Copper                                                                                                                                                |
| Unit Weight                  | 1.68 g                                                                                                                                                           |
| Storage Conditions           | 0 °C to 60 °C, max. 70% r.h.                                                                                                                                     |
| Product Marking              |  , Rated current, Rated Voltage, Characteristic, Breaking Capacity, Approvals |

|                              |                                                           |
|------------------------------|-----------------------------------------------------------|
| Soldering Methods            | Wave, Iron<br><a href="#">Soldering Profile</a>           |
| Solderability                | 235 °C / 2 sec acc. to IEC 60068-2-20, Test Ta, method 1  |
| Resistance to Soldering Heat | 260 °C / 5 sec acc. to IEC 60068-2-20, Test Tb, method 1A |

### Dimension

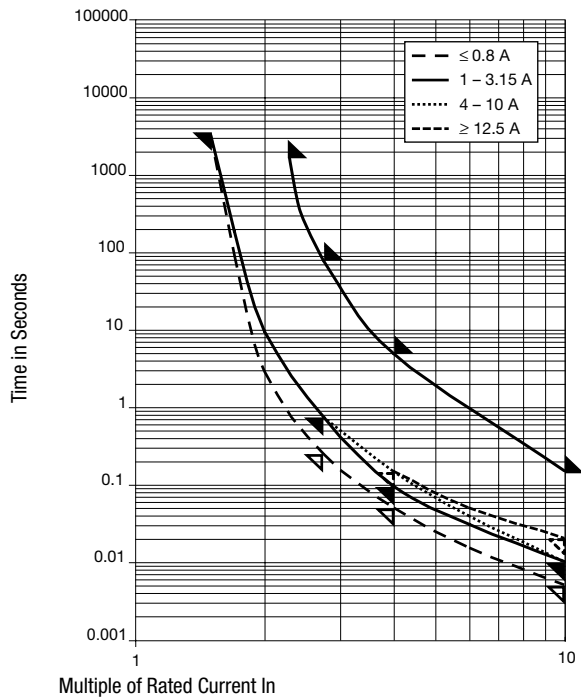


$I_n \leq 6.3 \text{ A}$ :  $\varnothing A = 0.65 \text{ mm}$   
 $8 \text{ A} \leq I_n \leq 12.5 \text{ A}$ :  $\varnothing A = 0.8 \text{ mm}$   
 $I_n \geq 16 \text{ A}$ :  $\varnothing A = 1.0 \text{ mm}$

Pre-Arcing Time

| Rated Current I <sub>n</sub> | 1.5 x I <sub>n</sub> min. | 2.1 x I <sub>n</sub> max. | 2.75 x I <sub>n</sub> min. | 2.75 x I <sub>n</sub> max. | 4.0 x I <sub>n</sub> min. | 4.0 x I <sub>n</sub> max. | 10.0 x I <sub>n</sub> min. | 10.0 x I <sub>n</sub> max. |
|------------------------------|---------------------------|---------------------------|----------------------------|----------------------------|---------------------------|---------------------------|----------------------------|----------------------------|
| 0.5 A - 0.8 A                | 60 min                    | 30 min                    | 250 ms                     | 80 s                       | 50 ms                     | 5 s                       | 5 ms                       | 150 ms                     |
| 1 A - 3.15 A                 | 60 min                    | 30 min                    | 750 ms                     | 80 s                       | 95 ms                     | 5 s                       | 10 ms                      | 150 ms                     |
| 4 A - 6.3 A                  | 60 min                    | 30 min                    | 750 ms                     | 80 s                       | 150 ms                    | 5 s                       | 10 ms                      | 150 ms                     |
| 8 A - 10 A                   | 30 min                    | 30 min                    | 750 ms                     | 80 s                       | 150 ms                    | 5 s                       | 10 ms                      | 150 ms                     |
| 12.5 A - 16 A                | 15 min                    | 30 min                    | 750 ms                     | 80 s                       | 150 ms                    | 5 s                       | 20 ms                      | 150 ms                     |

Time-Current-Curves



All Variants

| Rated Current [A] | Rated Voltage [VAC] | Rated Voltage [VDC] | Breaking Capacity | Voltage Drop 1.0 I <sub>n</sub> max. [mV] | Voltage Drop 1.0 I <sub>n</sub> typ. [mV] | Power Dissipation 1.5 I <sub>n</sub> max. [mW] | Power Dissipation 1.5 I <sub>n</sub> typ. [mW] | Melting I <sup>2</sup> t 10.0 Intyp. [A <sup>2</sup> s] |  | Order Number |
|-------------------|---------------------|---------------------|-------------------|-------------------------------------------|-------------------------------------------|------------------------------------------------|------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------------------------------------|--------------|
| 0.5               | 250                 | 300                 | 1)                | 850                                       | 360                                       | 1600                                           | 500                                            | 0.5                                                     | ●                                                                                     | 0001.2501.PT |
| 0.5               | 250                 | 300                 | 1)                | 850                                       | 360                                       | 1600                                           | 500                                            | 0.5                                                     | ●                                                                                     | 0001.2501.TR |
| 0.63              | 250                 | 300                 | 1)                | 650                                       | 330                                       | 1600                                           | 500                                            | 1.55                                                    | ●                                                                                     | 0001.2502.PT |
| 0.63              | 250                 | 300                 | 1)                | 650                                       | 330                                       | 1600                                           | 500                                            | 1.55                                                    | ●                                                                                     | 0001.2502.TR |
| 0.8               | 250                 | 300                 | 1)                | 500                                       | 260                                       | 1600                                           | 500                                            | 2.3                                                     | ●                                                                                     | 0001.2503.PT |
| 0.8               | 250                 | 300                 | 1)                | 500                                       | 260                                       | 1600                                           | 500                                            | 2.3                                                     | ●                                                                                     | 0001.2503.TR |
| 1                 | 250                 | 300                 | 1)                | 350                                       | 180                                       | 2500                                           | 500                                            | 1.1                                                     | ●                                                                                     | 0001.2504.PT |
| 1                 | 250                 | 300                 | 1)                | 350                                       | 180                                       | 2500                                           | 500                                            | 1.1                                                     | ●                                                                                     | 0001.2504.TR |
| 1.25              | 250                 | 300                 | 1)                | 300                                       | 150                                       | 2500                                           | 500                                            | 1.86                                                    | ●                                                                                     | 0001.2505.PT |
| 1.25              | 250                 | 300                 | 1)                | 300                                       | 150                                       | 2500                                           | 500                                            | 1.86                                                    | ●                                                                                     | 0001.2505.TR |
| 1.6               | 250                 | 300                 | 1)                | 200                                       | 130                                       | 2500                                           | 500                                            | 4.35                                                    | ●                                                                                     | 0001.2506.PT |
| 1.6               | 250                 | 300                 | 1)                | 200                                       | 130                                       | 2500                                           | 500                                            | 4.35                                                    | ●                                                                                     | 0001.2506.TR |
| 2                 | 250                 | 300                 | 1)                | 190                                       | 120                                       | 2500                                           | 600                                            | 9.2                                                     | ●                                                                                     | 0001.2507.PT |
| 2                 | 250                 | 300                 | 1)                | 190                                       | 120                                       | 2500                                           | 600                                            | 9.2                                                     | ●                                                                                     | 0001.2507.TR |
| 2.5               | 250                 | 300                 | 1)                | 180                                       | 100                                       | 2500                                           | 600                                            | 11.7                                                    | ●                                                                                     | 0001.2508.PT |
| 2.5               | 250                 | 300                 | 1)                | 180                                       | 100                                       | 2500                                           | 600                                            | 11.7                                                    | ●                                                                                     | 0001.2508.TR |
| 3.15              | 250                 | 300                 | 1)                | 140                                       | 100                                       | 4000                                           | 800                                            | 22                                                      | ●                                                                                     | 0001.2509.PT |
| 3.15              | 250                 | 300                 | 1)                | 140                                       | 100                                       | 4000                                           | 800                                            | 22                                                      | ●                                                                                     | 0001.2509.TR |
| 4                 | 250                 | 150                 | 2)                | 100                                       | 90                                        | 4000                                           | 900                                            | 62.4                                                    | ●                                                                                     | 0001.2510.PT |

| Rated Current [A] | Rated Voltage [VAC] | Rated Voltage [VDC] | Breaking Capacity | Voltage Drop 1.0 I <sub>n</sub> max. [mV] | Voltage Drop 1.0 I <sub>n</sub> typ. [mV] | Power Dissipation 1.5 I <sub>n</sub> max. [mW] | Power Dissipation 1.5 I <sub>n</sub> typ. [mW] | Melting I <sup>2</sup> t 10.0 Intyp. [A <sup>2</sup> s] |  | Order Number |
|-------------------|---------------------|---------------------|-------------------|-------------------------------------------|-------------------------------------------|------------------------------------------------|------------------------------------------------|---------------------------------------------------------|-------------------------------------------------------------------------------------|--------------|
| 4                 | 250                 | 150                 | 2)                | 100                                       | 90                                        | 4000                                           | 900                                            | 62.4                                                    | ●                                                                                   | 0001.2510.TR |
| 5                 | 250                 | 150                 | 2)                | 100                                       | 90                                        | 4000                                           | 1200                                           | 97.5                                                    | ●                                                                                   | 0001.2511.PT |
| 5                 | 250                 | 150                 | 2)                | 100                                       | 90                                        | 4000                                           | 1200                                           | 97.5                                                    | ●                                                                                   | 0001.2511.TR |
| 6.3               | 250                 | 150                 | 2)                | 100                                       | 70                                        | 4000                                           | 1200                                           | 171                                                     | ●                                                                                   | 0001.2512.PT |
| 6.3               | 250                 | 150                 | 2)                | 100                                       | 70                                        | 4000                                           | 1200                                           | 171                                                     | ●                                                                                   | 0001.2512.TR |
| 8                 | 250                 | 150                 | 3)                | 100                                       | 70                                        | 4000                                           | 1300                                           | 268                                                     | ●                                                                                   | 0001.2513.PT |
| 8                 | 250                 | 150                 | 3)                | 100                                       | 70                                        | 4000                                           | 1300                                           | 268                                                     | ●                                                                                   | 0001.2513.TR |
| 10                | 250                 | 150                 | 3)                | 100                                       | 70                                        | 4000                                           | 2100                                           | 400                                                     | ●                                                                                   | 0001.2514.PT |
| 10                | 250                 | 150                 | 3)                | 100                                       | 70                                        | 4000                                           | 2100                                           | 400                                                     | ●                                                                                   | 0001.2514.TR |
| 12.5              | 250                 | 125                 | 4)                | 100                                       | 70                                        | 4000                                           | 2500                                           | 563                                                     | ●                                                                                   | 0001.2515.PT |
| 12.5              | 250                 | 125                 | 4)                | 100                                       | 70                                        | 4000                                           | 2500                                           | 563                                                     | ●                                                                                   | 0001.2515.TR |
| 16                | 250                 | 125                 | 4)                | 100                                       | 70                                        | 4000                                           | 3000                                           | 1500                                                    | ●                                                                                   | 0001.2516.PT |
| 16                | 250                 | 125                 | 4)                | 100                                       | 70                                        | 4000                                           | 3000                                           | 1500                                                    | ●                                                                                   | 0001.2516.TR |

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1) IEC: H = 1500 A @ 250 VAC, p.f. = 0.7 - 0.8

1) UL: 10 kA @ 125 VAC, p.f. = 0.7 - 0.8 / 1500 A @ 250 VAC, p.f. = 0.7 - 0.8 / 1500 A @ 300 VDC

2) IEC: H = 1500 A @ 250 VAC, p.f. = 0.7 - 0.8

2) UL: 10 kA @ 125 VAC, p.f. = 0.7 - 0.8 / 1500 A @ 250 VAC, p.f. = 0.7 - 0.8 / 1500 A @ 150 VDC

3) IEC: 1000 A @ 250 VAC

3) UL: 1000 A @ 250 VAC, 1500 A @ 150 VDC

4) IEC: 500 A @ 250 VAC

4) UL: 500 A @ 125 VAC, p.f. = 0.7 - 0.8 / 1000 A @ 125 VDC / 500 A @ 250 VAC / 1500 A @ 125 VDC

**Packaging Unit**     .xx = .PT Bulk (1000 pcs.)  
                              .xx = .TR Taped 33 cm Reel (1000 pcs.)