

Subminiature Fuse, 6.4 mm, Quick-Acting F, 125 VAC, 125 VDC



UL 248-14 · 125VAC · 125VDC · Quick-Acting F

**Description**

- Directly solderable on printed circuit boards

**Standards**

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

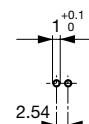
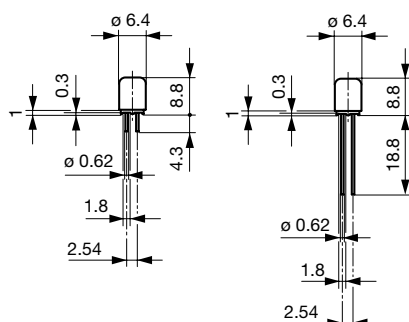
**Approvals**

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

**References**
[Packaging Details](#)
Corresponding Fuseholder [FME](#); [FMR](#); [FMS \(125V\)](#)**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                | 125VAC, 125VDC                                                                                                                                    |
| Rated Current                | 0.1 - 5 A                                                                                                                                         |
| Breaking Capacity            | 100 A                                                                                                                                             |
| Characteristic               | Quick-Acting F                                                                                                                                    |
| Mounting                     | PCB,THT                                                                                                                                           |
| Admissible Ambient Air Temp. | -25 °C to 85 °C                                                                                                                                   |
| Climatic Category            | 25/085/21 acc. to IEC 60068-1                                                                                                                     |
| Material: Housing            | Thermoplastic, UL 94V-0                                                                                                                           |
| Material: Terminals          | Tin-Plated Copper                                                                                                                                 |
| Unit Weight                  | 0.34 g                                                                                                                                            |
| Storage Conditions           | 0 °C to 40 °C, max. 70% r.h.                                                                                                                      |
| Product Marking              |  Type, Current, Dielectric strength, 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                        |
| Life Test                    | 1000h @ 0.60 x In @ 70 °C (acc. to EIA/IS-722, Test 4.4.1)             |
| 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<br>>100 MΩ (between leads and body)       |
| Mechanical Shock             | (acc. to EIA/IS-722, Test 4.9)                                         |
| 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)                               |

**Dimensions**
 6.4 mm


Drilling diagram

**Pre-Arcing Time**

| Rated Current In | 1.5 x In max. | 2.0 x In max. | 2.75 x In max. | 4.0 x In max. | 10.0 x In max. |
|------------------|---------------|---------------|----------------|---------------|----------------|
| 0.1 A - 5 A      | 10 min        | 5 s           | 300 ms         | 30 ms         | 4 ms           |

## Variants

S = Short Terminals  
L = Long Terminals  
T = Taped and Reeled

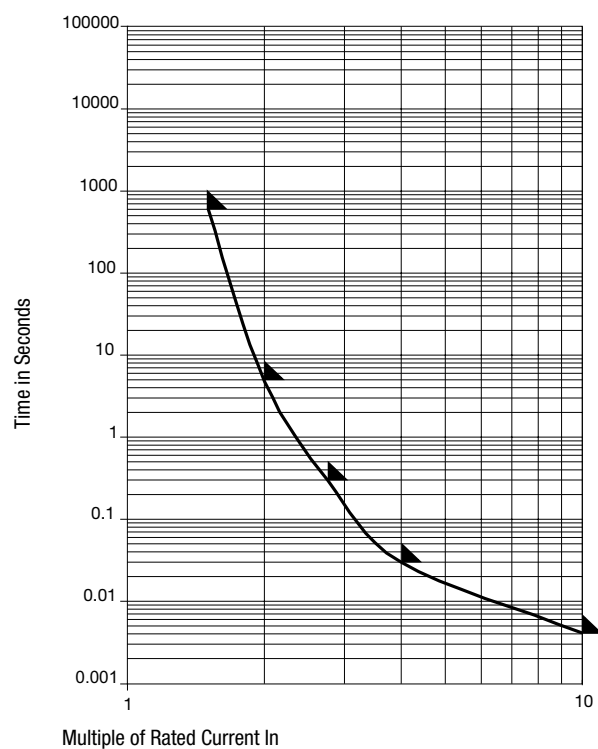
| Rated Current [A] | Rated Voltage [VAC] | Rated Voltage [VDC] | Breaking Capacity | Voltage Drop 1.0 I <sub>n</sub> max. [mV] | Voltage Drop 1.0 I <sub>n</sub> typ. [mV] | Power Dissipation 1.0 I <sub>n</sub> max. [mW] | Melting I <sup>2</sup> t 10.0 Intyp. c [A <sup>2</sup> s] |  | S | L | T | Order Number |
|-------------------|---------------------|---------------------|-------------------|-------------------------------------------|-------------------------------------------|------------------------------------------------|-----------------------------------------------------------|-------------------------------------------------------------------------------------|---|---|---|--------------|
| 0.1               | 125                 | 125                 | 1)                | 1000                                      | 690                                       | 100                                            | 0.0007                                                    | ●                                                                                   | ● |   |   | 0034.4209    |
| 0.125             | 125                 | 125                 | 1)                | 1000                                      | 960                                       | 100                                            | 0.0015                                                    | ●                                                                                   | ● |   |   | 0034.4210    |
| 0.16              | 125                 | 125                 | 1)                | 1000                                      | 850                                       | 100                                            | 0.0036                                                    | ●                                                                                   | ● |   |   | 0034.4211    |
| 0.2               | 125                 | 125                 | 1)                | 700                                       | 680                                       | 100                                            | 0.0033                                                    | ●                                                                                   | ● |   |   | 0034.4212    |
| 0.25              | 125                 | 125                 | 1)                | 700                                       | 620                                       | 100                                            | 0.0055                                                    | ●                                                                                   | ● |   |   | 0034.4213    |
| 0.315             | 125                 | 125                 | 1)                | 700                                       | 680                                       | 200                                            | 0.025                                                     | ●                                                                                   | ● |   |   | 0034.4214    |
| 0.4               | 125                 | 125                 | 1)                | 400                                       | 180                                       | 100                                            | 0.013                                                     | ●                                                                                   | ● |   |   | 0034.4215    |
| 0.5               | 125                 | 125                 | 1)                | 400                                       | 180                                       | 100                                            | 0.02                                                      | ●                                                                                   | ● |   |   | 0034.4216    |
| 0.63              | 125                 | 125                 | 1)                | 400                                       | 180                                       | 100                                            | 0.045                                                     | ●                                                                                   | ● |   |   | 0034.4217    |
| 0.71              | 125                 | 125                 | 1)                | 400                                       | 140                                       | 100                                            | 0.045                                                     | ●                                                                                   | ● |   |   | 0034.4218    |
| 0.75              | 125                 | 125                 | 1)                | 400                                       | 170                                       | 100                                            | 0.02                                                      | ●                                                                                   | ● |   |   | 0034.4219    |
| 0.8               | 125                 | 125                 | 1)                | 400                                       | 150                                       | 100                                            | 0.04                                                      | ●                                                                                   | ● |   |   | 0034.4220    |
| 1                 | 125                 | 125                 | 1)                | 400                                       | 150                                       | 100                                            | 0.07                                                      | ●                                                                                   | ● |   |   | 0034.4221    |
| 1.25              | 125                 | 125                 | 1)                | 190                                       | 150                                       | 200                                            | 0.12                                                      | ●                                                                                   | ● |   |   | 0034.4222    |
| 1.6               | 125                 | 125                 | 1)                | 190                                       | 150                                       | 200                                            | 0.29                                                      | ●                                                                                   | ● |   |   | 0034.4223    |
| 2                 | 125                 | 125                 | 1)                | 190                                       | 130                                       | 200                                            | 0.43                                                      | ●                                                                                   | ● |   |   | 0034.4224    |
| 2.5               | 125                 | 125                 | 1)                | 190                                       | 120                                       | 300                                            | 0.6                                                       | ●                                                                                   | ● |   |   | 0034.4225    |
| 3.15              | 125                 | 125                 | 1)                | 190                                       | 120                                       | 400                                            | 1.1                                                       | ●                                                                                   | ● |   |   | 0034.4226    |
| 4                 | 125                 | 125                 | 1)                | 190                                       | 120                                       | 500                                            | 1.9                                                       | ●                                                                                   | ● |   |   | 0034.4227    |
| 5                 | 125                 | 125                 | 1)                | 190                                       | 120                                       | 600                                            | 3                                                         | ●                                                                                   | ● |   |   | 0034.4228    |
| 0.1               | 125                 | 125                 | 1)                | 1000                                      | 690                                       | 100                                            | 0.0007                                                    | ●                                                                                   |   | ● |   | 0034.4239    |
| 0.125             | 125                 | 125                 | 1)                | 1000                                      | 960                                       | 100                                            | 0.0015                                                    | ●                                                                                   |   | ● |   | 0034.4240    |
| 0.16              | 125                 | 125                 | 1)                | 1000                                      | 850                                       | 100                                            | 0.0036                                                    | ●                                                                                   |   | ● |   | 0034.4241    |
| 0.2               | 125                 | 125                 | 1)                | 700                                       | 680                                       | 100                                            | 0.0033                                                    | ●                                                                                   |   | ● |   | 0034.4242    |
| 0.25              | 125                 | 125                 | 1)                | 700                                       | 620                                       | 100                                            | 0.0055                                                    | ●                                                                                   |   | ● |   | 0034.4243    |
| 0.315             | 125                 | 125                 | 1)                | 700                                       | 680                                       | 200                                            | 0.025                                                     | ●                                                                                   |   | ● |   | 0034.4244    |
| 0.4               | 125                 | 125                 | 1)                | 400                                       | 180                                       | 100                                            | 0.013                                                     | ●                                                                                   |   | ● |   | 0034.4245    |
| 0.5               | 125                 | 125                 | 1)                | 400                                       | 180                                       | 100                                            | 0.02                                                      | ●                                                                                   |   | ● |   | 0034.4246    |
| 0.63              | 125                 | 125                 | 1)                | 400                                       | 180                                       | 100                                            | 0.045                                                     | ●                                                                                   |   | ● |   | 0034.4247    |
| 0.71              | 125                 | 125                 | 1)                | 400                                       | 140                                       | 100                                            | 0.045                                                     | ●                                                                                   |   | ● |   | 0034.4248    |
| 0.75              | 125                 | 125                 | 1)                | 400                                       | 170                                       | 100                                            | 0.02                                                      | ●                                                                                   |   | ● |   | 0034.4249    |
| 0.8               | 125                 | 125                 | 1)                | 400                                       | 150                                       | 100                                            | 0.04                                                      | ●                                                                                   |   | ● |   | 0034.4250    |
| 1                 | 125                 | 125                 | 1)                | 400                                       | 150                                       | 100                                            | 0.07                                                      | ●                                                                                   |   | ● |   | 0034.4251    |
| 1.25              | 125                 | 125                 | 1)                | 190                                       | 150                                       | 200                                            | 0.12                                                      | ●                                                                                   |   | ● |   | 0034.4252    |
| 1.6               | 125                 | 125                 | 1)                | 190                                       | 150                                       | 200                                            | 0.29                                                      | ●                                                                                   |   | ● |   | 0034.4253    |
| 2                 | 125                 | 125                 | 1)                | 190                                       | 130                                       | 200                                            | 0.43                                                      | ●                                                                                   |   | ● |   | 0034.4254    |
| 2.5               | 125                 | 125                 | 1)                | 190                                       | 120                                       | 300                                            | 0.6                                                       | ●                                                                                   |   | ● |   | 0034.4255    |
| 3.15              | 125                 | 125                 | 1)                | 190                                       | 120                                       | 400                                            | 1.1                                                       | ●                                                                                   |   | ● |   | 0034.4256    |
| 4                 | 125                 | 125                 | 1)                | 190                                       | 120                                       | 500                                            | 1.9                                                       | ●                                                                                   |   | ● |   | 0034.4257    |
| 5                 | 125                 | 125                 | 1)                | 190                                       | 120                                       | 600                                            | 3                                                         | ●                                                                                   |   | ● |   | 0034.4258    |
| 0.1               | 125                 | 125                 | 1)                | 1000                                      | 690                                       | 100                                            | 0.0007                                                    | ●                                                                                   |   |   | ● | 0034.4539    |
| 0.125             | 125                 | 125                 | 1)                | 1000                                      | 960                                       | 100                                            | 0.0015                                                    | ●                                                                                   |   |   | ● | 0034.4540    |
| 0.16              | 125                 | 125                 | 1)                | 1000                                      | 850                                       | 100                                            | 0.0036                                                    | ●                                                                                   |   |   | ● | 0034.4541    |
| 0.2               | 125                 | 125                 | 1)                | 700                                       | 680                                       | 100                                            | 0.0033                                                    | ●                                                                                   |   |   | ● | 0034.4542    |
| 0.25              | 125                 | 125                 | 1)                | 700                                       | 620                                       | 100                                            | 0.0055                                                    | ●                                                                                   |   |   | ● | 0034.4543    |
| 0.315             | 125                 | 125                 | 1)                | 700                                       | 680                                       | 200                                            | 0.025                                                     | ●                                                                                   |   |   | ● | 0034.4544    |
| 0.4               | 125                 | 125                 | 1)                | 400                                       | 180                                       | 100                                            | 0.013                                                     | ●                                                                                   |   |   | ● | 0034.4545    |
| 0.5               | 125                 | 125                 | 1)                | 400                                       | 180                                       | 100                                            | 0.02                                                      | ●                                                                                   |   |   | ● | 0034.4546    |
| 0.63              | 125                 | 125                 | 1)                | 400                                       | 180                                       | 100                                            | 0.045                                                     | ●                                                                                   |   |   | ● | 0034.4547    |
| 0.71              | 125                 | 125                 | 1)                | 400                                       | 140                                       | 100                                            | 0.045                                                     | ●                                                                                   |   |   | ● | 0034.4548    |

| 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 1.0 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 |
|-------------------|---------------------|---------------------|-------------------|-------------------------------------------|-------------------------------------------|------------------------------------------------|---------------------------------------------------------|-------------------------------------------------------------------------------------|---|---|---|--------------|
| 0.75              | 125                 | 125                 | 1)                | 400                                       | 170                                       | 100                                            | 0.02                                                    | ●                                                                                   |   |   | ● | 0034.4549    |
| 0.8               | 125                 | 125                 | 1)                | 400                                       | 150                                       | 100                                            | 0.04                                                    | ●                                                                                   |   |   | ● | 0034.4550    |
| 1                 | 125                 | 125                 | 1)                | 400                                       | 150                                       | 100                                            | 0.07                                                    | ●                                                                                   |   |   | ● | 0034.4551    |
| 1.25              | 125                 | 125                 | 1)                | 190                                       | 150                                       | 200                                            | 0.12                                                    | ●                                                                                   |   |   | ● | 0034.4552    |
| 1.6               | 125                 | 125                 | 1)                | 190                                       | 150                                       | 200                                            | 0.29                                                    | ●                                                                                   |   |   | ● | 0034.4553    |
| 2                 | 125                 | 125                 | 1)                | 190                                       | 130                                       | 200                                            | 0.43                                                    | ●                                                                                   |   |   | ● | 0034.4554    |
| 2.5               | 125                 | 125                 | 1)                | 190                                       | 120                                       | 300                                            | 0.6                                                     | ●                                                                                   |   |   | ● | 0034.4555    |
| 3.15              | 125                 | 125                 | 1)                | 190                                       | 120                                       | 400                                            | 1.1                                                     | ●                                                                                   |   |   | ● | 0034.4556    |
| 4                 | 125                 | 125                 | 1)                | 190                                       | 120                                       | 500                                            | 1.9                                                     | ●                                                                                   |   |   | ● | 0034.4557    |
| 5                 | 125                 | 125                 | 1)                | 190                                       | 120                                       | 600                                            | 3                                                       | ●                                                                                   |   |   | ● | 0034.4558    |

1) 100 A @ 125 VAC/DC

|                       |     |                              |
|-----------------------|-----|------------------------------|
| <b>Packaging Unit</b> | S = | Plastic Bag (100 pcs.)       |
|                       | L = | Bulk (100 pcs.)              |
|                       | T = | Taped 36 cm Reel (1000 pcs.) |

### Time-Current-Curves





Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

**Телефон:** 8 (812) 309 58 32 (многоканальный)

**Факс:** 8 (812) 320-02-42

**Электронная почта:** [org@eplast1.ru](mailto:org@eplast1.ru)

**Адрес:** 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.