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Subminiature Fuse, 2.3 x 8 mm, Quick-Acting F, IEC, 125 VAC, 125 VDC



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



Description

- High breaking capacity

Standards

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

Approvals

- Approval Reference Type: 172322
- UL File Number: E42088
- CSA File Number: 34549

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](#)

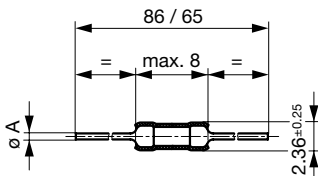
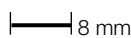
Technical Data

| | |
|------------------------------|-------------------------------|
| Rated Voltage | 32 - 125 VAC, 32 - 125 VDC |
| Rated current | 0.063 - 15 A |
| Breaking Capacity | 50 A - 300 A |
| Characteristic | Quick-Acting F |
| Admissible Ambient Air Temp. | -55 °C to 85 °C |
| Climatic Category | 55/085/56 acc. to IEC 60068-1 |
| Material: Tube | Ceramic |
| Material: Axial Leads | Tin-Plated Copper |
| Unit Weight | 0.46 g |
| Storage Conditions | 0 °C to 60 °C, max. 70% r.h. |
| Product Marking | Rated current |

| | |
|------------------------------|---|
| Soldering Methods | Wave Soldering Profile |
| 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 |

Detailed information on product approvals, code requirements, usage instructions and detailed test conditions can be looked up in [General Product Information](#)

Dimension

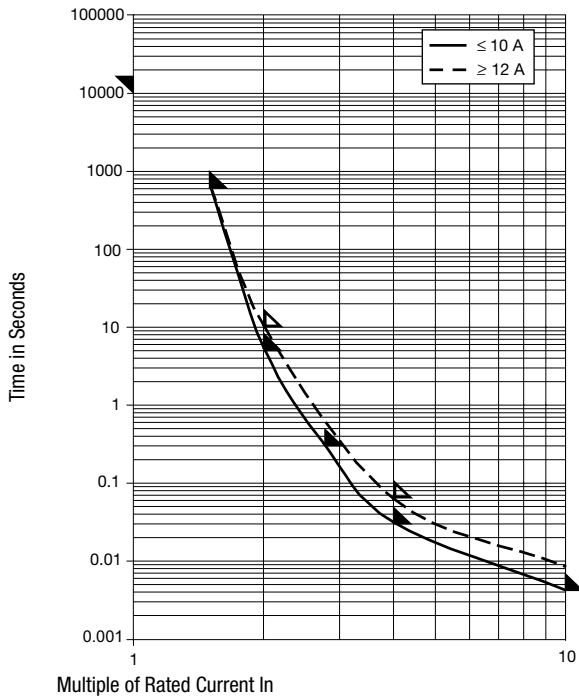


In ≤ 10 A: ØA = 0.62 mm
In > 10 A: ØA = 0.82 mm




Pre-Arcing Time


| Rated Current I _n | 1.0 x I _n min. | 1.5 x I _n max. | 2.0 x I _n max. | 2.75 x I _n max. | 4.0 x I _n max. | 10.0 x I _n max. |
|------------------------------|---------------------------|---------------------------|---------------------------|----------------------------|---------------------------|----------------------------|
| 0.063 A - 10 A | 4 h | 10 min | 5 s | 300 ms | 30 ms | 4 ms |
| 12 A - 15 A | 4 h | 10 min | 10 s | - | 60 ms | - |




Time-Current-Curves



All Variants

| Rated Current [A] | Rated Voltage [VAC] | Rated Voltage [VDC] | Breaking Capacity | Voltage Drop 1.0 I _n typ. [mV] | Power Dissipation 1.0 I _n typ. [mW] | Melting I ² t 10.0 I _n typ. [A ² s] |    | Order Number |
|-------------------|---------------------|---------------------|-------------------|---|--|--|--|--------------|
| 0.063 | 125 | 125 | 1) | 1050 | 66 | 0.0008 | ● ● | 7010.7010.13 |
| 0.063 | 125 | 125 | 1) | 1050 | 66 | 0.0008 | ● ● | 7010.7010.37 |
| 0.063 | 125 | 125 | 1) | 1050 | 66 | 0.0008 | ● ● | 7010.7010.39 |
| 0.063 | 125 | 125 | 1) | 1050 | 66 | 0.0008 | ● ● | 7010.7010.47 |
| - | 125 | 125 | 1) | 1050 | 66 | 0.0008 | ● ● | 7010.7010.49 |
| 0.125 | 125 | 125 | 1) | 900 | 115 | 0.0036 | ● ● ● | 7010.7020.13 |
| 0.125 | 125 | 125 | 1) | 900 | 115 | 0.0036 | ● ● ● | 7010.7020.37 |
| 0.125 | 125 | 125 | 1) | 900 | 115 | 0.0036 | ● ● ● | 7010.7020.39 |
| 0.125 | 125 | 125 | 1) | 900 | 115 | 0.0036 | ● ● ● | 7010.7020.47 |
| 0.125 | 125 | 125 | 1) | 900 | 115 | 0.0036 | ● ● ● | 7010.7020.49 |
| 0.25 | 125 | 125 | 1) | 325 | 82 | 0.0094 | ● ● ● | 7010.7030.13 |
| 0.25 | 125 | 125 | 1) | 325 | 82 | 0.0094 | ● ● ● | 7010.7030.37 |
| 0.25 | 125 | 125 | 1) | 325 | 82 | 0.0094 | ● ● ● | 7010.7030.39 |
| 0.25 | 125 | 125 | 1) | 325 | 82 | 0.0094 | ● ● ● | 7010.7030.47 |
| 0.25 | 125 | 125 | 1) | 325 | 82 | 0.0094 | ● ● ● | 7010.7030.49 |
| 0.375 | 125 | 125 | 1) | 245 | 92 | 0.019 | ● ● ● | 7010.7040.13 |
| 0.375 | 125 | 125 | 1) | 245 | 92 | 0.019 | ● ● ● | 7010.7040.37 |
| 0.375 | 125 | 125 | 1) | 245 | 92 | 0.019 | ● ● ● | 7010.7040.39 |
| 0.375 | 125 | 125 | 1) | 245 | 92 | 0.019 | ● ● ● | 7010.7040.47 |
| 0.375 | 125 | 125 | 1) | 245 | 92 | 0.019 | ● ● ● | 7010.7040.49 |
| 0.5 | 125 | 125 | 1) | 260 | 130 | 0.07 | ● ● ● | 7010.7050.13 |
| 0.5 | 125 | 125 | 1) | 260 | 130 | 0.07 | ● ● ● | 7010.7050.37 |

| Rated Current [A] | Rated Voltage [VAC] | Rated Voltage [VDC] | Breaking Capacity | Voltage Drop 1.0 I _n typ. [mV] | Power Dissipation 1.0 I _n typ. [mW] | Melting I ² t 10.0 Intyp. [A ² s] |  | GAM T1 | Order Number | |
|-------------------|---------------------|---------------------|-------------------|---|--|---|--|--------|--------------|--------------|
| 0.5 | 125 | 125 | 1) | 260 | 130 | 0.07 | ● | ● | ● | 7010.7050.39 |
| 0.5 | 125 | 125 | 1) | 260 | 130 | 0.07 | ● | ● | ● | 7010.7050.47 |
| 0.5 | 125 | 125 | 1) | 260 | 130 | 0.07 | ● | ● | ● | 7010.7050.49 |
| 0.75 | 125 | 125 | 1) | 245 | 185 | 0.18 | ● | ● | ● | 7010.7060.13 |
| 0.75 | 125 | 125 | 1) | 245 | 185 | 0.18 | ● | ● | ● | 7010.7060.37 |
| 0.75 | 125 | 125 | 1) | 245 | 185 | 0.18 | ● | ● | ● | 7010.7060.39 |
| 0.75 | 125 | 125 | 1) | 245 | 185 | 0.18 | ● | ● | ● | 7010.7060.47 |
| 0.75 | 125 | 125 | 1) | 245 | 185 | 0.18 | ● | ● | ● | 7010.7060.49 |
| 1 | 125 | 125 | 1) | 210 | 210 | 0.3 | ● | ● | ● | 7010.7070.13 |
| 1 | 125 | 125 | 1) | 210 | 210 | 0.3 | ● | ● | ● | 7010.7070.37 |
| 1 | 125 | 125 | 1) | 210 | 210 | 0.3 | ● | ● | ● | 7010.7070.39 |
| 1 | 125 | 125 | 1) | 210 | 210 | 0.3 | ● | ● | ● | 7010.7070.47 |
| 1 | 125 | 125 | 1) | 210 | 210 | 0.3 | ● | ● | ● | 7010.7070.49 |
| 1.5 | 125 | 125 | 1) | 230 | 345 | 0.38 | ● | ● | ● | 7010.7080.13 |
| 1.5 | 125 | 125 | 1) | 230 | 345 | 0.38 | ● | ● | ● | 7010.7080.37 |
| 1.5 | 125 | 125 | 1) | 230 | 345 | 0.38 | ● | ● | ● | 7010.7080.39 |
| 1.5 | 125 | 125 | 1) | 230 | 345 | 0.38 | ● | ● | ● | 7010.7080.47 |
| 1.5 | 125 | 125 | 1) | 230 | 345 | 0.38 | ● | ● | ● | 7010.7080.49 |
| 2 | 125 | 125 | 1) | 190 | 380 | 1.1 | ● | ● | ● | 7010.7090.13 |
| 2 | 125 | 125 | 1) | 190 | 380 | 1.1 | ● | ● | ● | 7010.7090.37 |
| 2 | 125 | 125 | 1) | 190 | 380 | 1.1 | ● | ● | ● | 7010.7090.39 |
| 2 | 125 | 125 | 1) | 190 | 380 | 1.1 | ● | ● | ● | 7010.7090.47 |
| 2 | 125 | 125 | 1) | 190 | 380 | 1.1 | ● | ● | ● | 7010.7090.49 |
| 2.5 | 125 | 125 | 1) | 175 | 440 | 1.4 | ● | ● | ● | 7010.7100.13 |
| 2.5 | 125 | 125 | 1) | 175 | 440 | 1.4 | ● | ● | ● | 7010.7100.39 |
| 2.5 | 125 | 125 | 1) | 175 | 440 | 1.4 | ● | ● | ● | 7010.7100.47 |
| 2.5 | 125 | 125 | 1) | 175 | 440 | 1.4 | ● | ● | ● | 7010.7100.49 |
| 3 | 125 | 125 | 1) | 170 | 510 | 2 | ● | ● | ● | 7010.7110.13 |
| 3 | 125 | 125 | 1) | 170 | 510 | 2 | ● | ● | ● | 7010.7110.39 |
| 3 | 125 | 125 | 1) | 170 | 510 | 2 | ● | ● | ● | 7010.7110.47 |
| 3 | 125 | 125 | 1) | 170 | 510 | 2 | ● | ● | ● | 7010.7110.49 |
| 3.5 | 32 | 32 | 2) | 160 | 560 | 2.6 | ● | ● | ● | 7010.7180.13 |
| 3.5 | 32 | 32 | 2) | 160 | 560 | 2.6 | ● | ● | ● | 7010.7180.37 |
| 3.5 | 32 | 32 | 2) | 160 | 560 | 2.6 | ● | ● | ● | 7010.7180.39 |
| 3.5 | 32 | 32 | 2) | 160 | 560 | 2.6 | ● | ● | ● | 7010.7180.47 |
| 3.5 | 32 | 32 | 2) | 160 | 560 | 2.6 | ● | ● | ● | 7010.7180.49 |
| 4 | 125 | 125 | 1) | 180 | 720 | 4 | ● | ● | ● | 7010.7120.13 |
| 4 | 125 | 125 | 1) | 180 | 720 | 4 | ● | ● | ● | 7010.7120.37 |
| 4 | 125 | 125 | 1) | 180 | 720 | 4 | ● | ● | ● | 7010.7120.39 |
| 4 | 125 | 125 | 1) | 180 | 720 | 4 | ● | ● | ● | 7010.7120.47 |
| 4 | 125 | 125 | 1) | 180 | 720 | 4 | ● | ● | ● | 7010.7120.49 |
| 5 | 125 | 125 | 1) | 170 | 850 | 6.2 | ● | ● | ● | 7010.7130.13 |
| 5 | 125 | 125 | 1) | 170 | 850 | 6.2 | ● | ● | ● | 7010.7130.37 |
| 5 | 125 | 125 | 1) | 170 | 850 | 6.2 | ● | ● | ● | 7010.7130.39 |
| 5 | 125 | 125 | 1) | 170 | 850 | 6.2 | ● | ● | ● | 7010.7130.47 |
| 5 | 125 | 125 | 1) | 170 | 850 | 6.2 | ● | ● | ● | 7010.7130.49 |
| 7 | 125 | 125 | 1) | 135 | 945 | 13 | ● | ● | ● | 7010.7140.13 |
| 7 | 125 | 125 | 1) | 135 | 945 | 13 | ● | ● | ● | 7010.7140.37 |
| 7 | 125 | 125 | 1) | 135 | 945 | 13 | ● | ● | ● | 7010.7140.39 |
| 7 | 125 | 125 | 1) | 135 | 945 | 13 | ● | ● | ● | 7010.7140.47 |
| 7 | 125 | 125 | 1) | 135 | 945 | 13 | ● | ● | ● | 7010.7140.49 |
| 10 | 125 | 125 | 1) | 130 | 1300 | 39 | ● | ● | ● | 7010.7150.13 |
| 10 | 125 | 125 | 1) | 130 | 1300 | 39 | ● | ● | ● | 7010.7150.37 |
| 10 | 125 | 125 | 1) | 130 | 1300 | 39 | ● | ● | ● | 7010.7150.39 |

| Rated Current [A] | Rated Voltage [VAC] | Rated Voltage [VDC] | Breaking Capacity | Voltage Drop 1.0 I _n typ. [mV] | Power Dissipation 1.0 I _n typ. [mW] | Melting I ² t 10.0 Intyp. [A ² s] |  |  |  | Order Number |
|-------------------|---------------------|---------------------|-------------------|---|--|---|---|---|--|--------------|
| 10 | 125 | 125 | 1) | 130 | 1300 | 39 | ● | ● | ● | 7010.7150.47 |
| 10 | 125 | 125 | 1) | 130 | 1300 | 39 | ● | ● | ● | 7010.7150.49 |
| 12 | 32 | 32 | 2) | 130 | 1450 | 57 | ● | ● | ● | 7010.7160.13 |
| 12 | 32 | 32 | 2) | 130 | 1450 | 57 | ● | ● | ● | 7010.7160.37 |
| 12 | 32 | 32 | 2) | 130 | 1450 | 57 | ● | ● | ● | 7010.7160.39 |
| 12 | 32 | 32 | 2) | 130 | 1450 | 57 | ● | ● | ● | 7010.7160.47 |
| 12 | 32 | 32 | 2) | 130 | 1450 | 57 | ● | ● | ● | 7010.7160.49 |
| 15 | 32 | 32 | 2) | 120 | 1800 | 90 | ● | ● | ● | 7010.7170.13 |
| 15 | 32 | 32 | 2) | 120 | 1800 | 90 | ● | ● | ● | 7010.7170.37 |
| 15 | 32 | 32 | 2) | 120 | 1800 | 90 | ● | ● | ● | 7010.7170.47 |
| 15 | 32 | 32 | 2) | 120 | 1800 | 90 | ● | ● | ● | 7010.7170.49 |

Most Popular.

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1) UL: 50 A @ 125 VAC, p.f. ≥ 0.95 / 300 A @ 125 VDC

1) CSA: 300 A @ 125 VAC/DC

2) UL: 50 A @ 32 VAC, p.f. ≥ 0.95 / 300 A @ 32 VDC

2) CSA: 300 A @ 32 VAC/DC

Packaging Unit

.xx = .13 Plastic Bag, Fuse Length 86 mm (100 pcs.)
 .xx = .37 Taped 19 cm Reel, Fuse Length 65 mm (1500 pcs.)
 .xx = .39 Taped 19 cm Reel, Fuse Length 65 mm (5000 pcs.)
 .xx = .47 Taped 19 cm Reel, Fuse Length 86 mm (1500 pcs.)
 .xx = .49 Taped 19 cm Reel, Fuse Length 85 mm (5000 pcs.)