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Surface Mount Fuse, 3.2 x 1.55 mm, Super-Quick-Acting FF, 125 VAC, 125 VDC, 150 °C



UL 248-14 · 125 VAC · 125 VDC · Super-Quick-Acting FF



Description

- Max. ambient temperature 150 °C
- Hermetically sealed and robust construction
- Thin-film technology
- Impermeable to potting compound used to achieve hermetic seal for use in intrinsically safe applications according to ATEX and IECEx requirements.

Standards

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

Approvals

- Approval Reference Type: MAG
- UL File Number: E41599

Applications

- Medical equipment
- Military

References

[Packaging Details](#)
Alternative: Space version

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 - 125VAC, 125VDC |
| Rated current | 0.2 - 5A |
| Breaking Capacity | 50A |
| Characteristic | Super-Quick-Acting FF |
| Mounting | PCB,SMT |
| Admissible Ambient Air Temp. | -55 °C to 150 °C |
| Climatic Category | 55/150/21 acc. to IEC 60068-1 |
| Material: Housing | Ceramic |
| Material: Terminals | Tin-Plated Nickel |
| Unit Weight | 0.03 g |
| Storage Conditions | 0 °C to 60 °C, max. 70% r.h. |
| Product Marking | none |

| | |
|------------------------------|---|
| Soldering Methods | Reflow, Wave Soldering Profile |
| Solderability | 245 °C / 3 sec acc. to IEC 60068-2-58, Test Td |
| Resistance to Soldering Heat | 260 +0/-5 °C / 30 sec acc. to IPC/JEDEC J-STD-020D, Level 1 |
| Life Test | MIL-STD-202, Method 108A 1000h @ 0.60 x In @ 70 °C |
| Load Humidity Test | MIL-STD-202, Method 103B 0.1 x In @ 0.85 r.H. @ 85 °C |
| Moisture Resistance Test | MIL-STD-202, Method 106E (50 cycles in a temp./mister chamber) |
| Terminal Strength | MIL-STD-202, Method 211A (Deflection of board 1 mm for 1 minute) |
| Thermal Shock | MIL-STD-202, Method 107D (200 air-to-air cycles from -55 to +125 °C) |
| Resistance to Solvents | MIL-STD-202, Method 215A |
| Flammability | min. UL 94V-1 (acc. to EIA/IS-722, Test 4.12) |

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

Dimension

3.2 mm

Reflow soldering pads

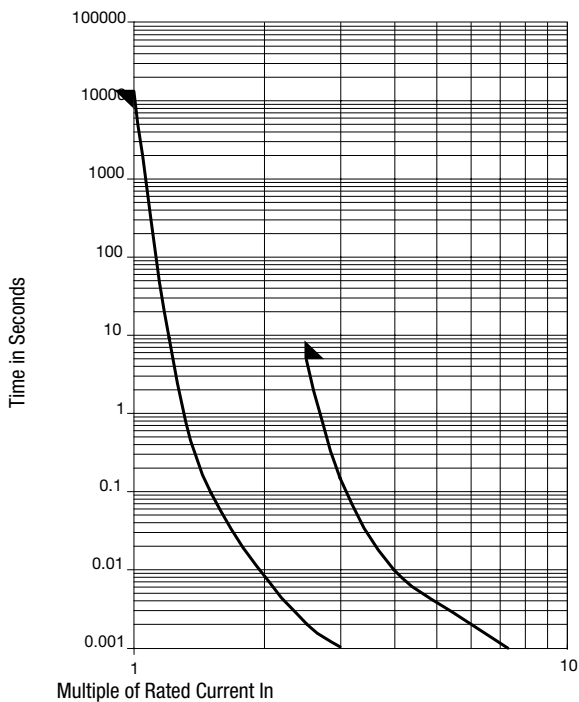


Pre-Arcing Time


Rated Current I_n 1.0 x I_n min. 2.5 x I_n max.


| | | |
|-------------|-----|-----|
| 0.2 A - 5 A | 4 h | 5 s |
|-------------|-----|-----|

Time-Current-Curves



All Variants

| Rated Current [A] | Rated Voltage [VAC] | Rated Voltage [VDC] | Breaking Capacity | Voltage Drop 1.0 I_n typ. [mV] | Cold Resistance typ. [$m\Omega$] | Melting I^2t 4.0 I_n typ. [A^2s] |  | Order Number |
|-------------------|---------------------|---------------------|-------------------|----------------------------------|------------------------------------|--|---|--------------|
| 0.2 | 125 | 125 | 1) | 258 | 1020 | 0.0008 | ● | 3410.0021.01 |
| 0.2 | 125 | 125 | 1) | 258 | 1020 | 0.0008 | ● | 3410.0021.02 |
| 0.2 | 125 | 125 | 1) | 258 | 1020 | 0.0008 | ● | 3410.0021.03 |
| 0.2 | 125 | 125 | 1) | 258 | 1020 | 0.0008 | ● | 3410.0021.04 |
| 0.25 | 125 | 125 | 1) | 250 | 800 | 0.0009 | ● | 3410.0022.01 |
| 0.25 | 125 | 125 | 1) | 250 | 800 | 0.0009 | ● | 3410.0022.02 |

| Rated Current [A] | Rated Voltage [VAC] | Rated Voltage [VDC] | Breaking Capacity | Voltage Drop 1.0 In typ. [mV] | Cold Resistance typ. [mΩ] | Melting I ² t 4.0 In typ. [A ² s] |  | Order Number |
|-------------------|---------------------|---------------------|-------------------|-------------------------------|---------------------------|---|---|--------------|
| 0.25 | 125 | 125 | 1) | 250 | 800 | 0.0009 | ● | 3410.0022.03 |
| 0.25 | 125 | 125 | 1) | 250 | 800 | 0.0009 | ● | 3410.0022.04 |
| 0.375 | 125 | 125 | 1) | 165 | 361 | 0.0037 | ● | 3410.0025.01 |
| 0.375 | 125 | 125 | 1) | 165 | 361 | 0.0037 | ● | 3410.0025.02 |
| 0.375 | 125 | 125 | 1) | 165 | 361 | 0.0037 | ● | 3410.0025.03 |
| 0.375 | 125 | 125 | 1) | 165 | 361 | 0.0037 | ● | 3410.0025.04 |
| 0.5 | 125 | 125 | 1) | 150 | 247 | 0.0042 | ● | 3410.0027.01 |
| 0.5 | 125 | 125 | 1) | 150 | 247 | 0.0042 | ● | 3410.0027.02 |
| 0.5 | 125 | 125 | 1) | 150 | 247 | 0.0042 | ● | 3410.0027.03 |
| 0.5 | 125 | 125 | 1) | 150 | 247 | 0.0042 | ● | 3410.0027.04 |
| 0.75 | 125 | 125 | 1) | 100 | 115 | 0.01 | ● | 3410.0029.01 |
| 0.75 | 125 | 125 | 1) | 100 | 115 | 0.01 | ● | 3410.0029.02 |
| 0.75 | 125 | 125 | 1) | 100 | 115 | 0.01 | ● | 3410.0029.03 |
| 0.75 | 125 | 125 | 1) | 100 | 115 | 0.01 | ● | 3410.0029.04 |
| 1 | 125 | 125 | 1) | 124 | 98.7 | 0.035 | ● | 3410.0031.01 |
| 1 | 125 | 125 | 1) | 124 | 98.7 | 0.035 | ● | 3410.0031.02 |
| 1 | 125 | 125 | 1) | 124 | 98.7 | 0.035 | ● | 3410.0031.03 |
| 1 | 125 | 125 | 1) | 124 | 98.7 | 0.035 | ● | 3410.0031.04 |
| 1.5 | 125 | 125 | 1) | 105 | 56 | 0.064 | ● | 3410.0033.01 |
| 1.5 | 125 | 125 | 1) | 105 | 56 | 0.064 | ● | 3410.0033.02 |
| 1.5 | 125 | 125 | 1) | 105 | 56 | 0.064 | ● | 3410.0033.03 |
| 1.5 | 125 | 125 | 1) | 105 | 56 | 0.064 | ● | 3410.0033.04 |
| 2 | 125 | 125 | 1) | 98 | 39 | 0.089 | ● | 3410.0035.01 |
| 2 | 125 | 125 | 1) | 98 | 39 | 0.089 | ● | 3410.0035.02 |
| 2 | 125 | 125 | 1) | 98 | 39 | 0.089 | ● | 3410.0035.03 |
| 2 | 125 | 125 | 1) | 98 | 39 | 0.089 | ● | 3410.0035.04 |
| 2.5 | 125 | 125 | 1) | 90 | 29.5 | 0.15 | ● | 3410.0036.01 |
| 2.5 | 125 | 125 | 1) | 90 | 29.5 | 0.15 | ● | 3410.0036.02 |
| 2.5 | 125 | 125 | 1) | 90 | 29.5 | 0.15 | ● | 3410.0036.03 |
| 2.5 | 125 | 125 | 1) | 90 | 29.5 | 0.15 | ● | 3410.0036.04 |
| 3 | 125 | 125 | 1) | 88 | 24.1 | 0.18 | ● | 3410.0037.01 |
| 3 | 125 | 125 | 1) | 88 | 24.1 | 0.18 | ● | 3410.0037.02 |
| 3 | 125 | 125 | 1) | 88 | 24.1 | 0.18 | ● | 3410.0037.03 |
| 3 | 125 | 125 | 1) | 88 | 24.1 | 0.18 | ● | 3410.0037.04 |
| 4 | 63 | 125 | 2) | 83.5 | 17 | 0.23 | ● | 3410.0240.01 |
| 4 | 63 | 63 | 2) | 83.5 | 17 | 0.23 | ● | 3410.0240.02 |
| 4 | 63 | 63 | 2) | 83.5 | 17 | 0.23 | ● | 3410.0240.03 |
| 4 | 63 | 63 | 2) | 83.5 | 17 | 0.23 | ● | 3410.0240.04 |
| 5 | 32 | 125 | 3) | 90 | 13.5 | 0.45 | ● | 3410.0141.01 |
| 5 | 32 | 32 | 3) | 90 | 13.5 | 0.45 | ● | 3410.0141.02 |
| 5 | 32 | 32 | 3) | 90 | 13.5 | 0.45 | ● | 3410.0141.03 |
| 5 | 32 | 32 | 3) | 90 | 13.5 | 0.45 | ● | 3410.0141.04 |

■ Most Popular.

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

1) 50 A @ 125 VAC / 300 A @ 125 VDC

2) 50 A @ 63 VAC / 50 A @ 125 VDC / 300 A @ 32 VDC

3) 50 A @ 32 VAC / 50 A @ 125 VDC / 300 A @ 32 VDC

Packaging Unit

- .xx = .01 Blister Tape of 100 pcs. in Plastic Bag
- .xx = .02 Blister Tape 18 cm Reel (750 pcs.)
- .xx = .03 Blister Tape 33 cm Reel (3000 pcs.)
- .xx = .04 Blister Tape 33 cm Reel (10000 pcs.)