



THE DATASHEET OF
3410.0022.02



Solid State, Thin Film, SMD 1206, Super-Quick-Acting FF, 125 VAC, 125 VDC, 150 °C



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

See below:

[Approvals and Compliances](#)**Description**

- Max. ambient temperature 150 °C
- Impermeable to potting compound used to achieve hermetic seal for use in intrinsically safe applications according to ATEX and IECEx requirements.

Unique Selling Proposition

- Hermetically sealed and robust construction
- High breaking capacity up to 300 A
- Smallest size

Applications

- Applications where high reliability and availability is required
- Medical Equipment
- Offshore
- Defense

References

Alternative: Space version

Weblinks

[pdf data sheet](#), [html datasheet](#), [General Product Information](#), [Distributor-Stock-Check](#), [Detailed request for product](#)

Technical Data

| | |
|--------------------------|-------------------------------|
| Rated Voltage | 32 - 125 VAC, 125 VDC |
| Rated current | 0.2 - 5 A |
| Breaking Capacity | 50 A |
| Characteristic | Super-Quick-Acting FF |
| Mounting | PCB,SMT |
| Admissible Ambient Temp. | -55 °C to 150 °C |
| Climatic Category | 55/150/21 acc. to IEC 60068-1 |
| Material: Housing | Ceramics |
| 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 |
| Moisture Sensitivity Level | MSL 1, J-STD-020 |
| Flammability | min. UL 94V-1 (acc. to EIA/IS-722, Test 4.12) |
| Moisture Sensitivity Level | MIL-STD-202, Method 106 (50 cycles in a temp./mister chamber) |
| Thermal Shock | MIL-STD-202, Method 107D (200 air-to-air cycles from -55 to +125 °C) |
| Operational Life | MIL-STD-202, Method 108 1000h @ 0.60 x In @ 70 °C |
| Load Humidity Test | MIL-STD-202, Method 103 0.1 x In @ 0.85 r.H. @ 85 °C |
| ESD classification | JEDEC JS-001-2014, Class 1B (500 to < 1000 V) |
| Resistance to Solvents | MIL-STD-202, Method 215 |
| Terminal Strength | MIL-STD-202, Method 211A (Deflection of board 1 mm for 1 minute) |

Approvals and Compliances


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

SCHURTER products are designed for use in industrial environments. They have approvals from independent testing bodies according to national and international standards. Products with specific characteristics and requirements such as required in the automotive sector according to IATF 16949, medical technology according to ISO 13485 or in the aerospace industry can be offered exclusively with customer-specific, individual agreements by SCHURTER.

Approvals



The approval mark is used by the testing authorities to certify compliance with the safety requirements placed on electronic products.

Approval Reference Type: MGA

| Approval Logo | Certificates | Certification Body | Description |
|--|------------------------------|--------------------|------------------------|
|  | UL Approvals | UL | UR File Number: E41599 |


Product standards

Product standards that are referenced

| Organization | Design | Standard | Description |
|--|-----------------------|--------------------|---|
|  | Designed according to | UL 248-14 | Low voltage fuses - Part 14: Supplemental fuses |
|  | Designed according to | CSA22.2 No. 248.14 | Low-Voltage Fuses - Part 14: Supplemental Fuses |






Application standards

Application standards where the product can be used

| Organization | Design | Standard | Description |
|--|--------------------------------|----------------|---|
|  | Suitable for applications acc. | IEC/UL 62368-1 | Audio/video, information and communication technology equipment - Part 1: Safety requirements |

Compliances

The product complies with following Guide Lines

| Identification | Details | Initiator | Description |
|--|--|-------------|---|
|  | CE declaration of conformity | SCHURTER AG | The CE marking declares that the product complies with the applicable requirements laid down in the harmonisation of Community legislation on its affixing in accordance with EU Regulation 765/2008. |
|  | UKCA declaration of conformity | SCHURTER AG | The UKCA marking declares that the product complies with the applicable requirements laid down in the British Amendment of Regulation (EC) 765/2008. |
|  | RoHS | SCHURTER AG | Directive RoHS 2011/65/EU, Amendment (EU) 2015/863 |
|  | China RoHS | SCHURTER AG | The law SJ / T 11363-2006 (China RoHS) has been in force since 1 March 2007. It is similar to the EU directive RoHS. |
|  | REACH | SCHURTER AG | On 1 June 2007, Regulation (EC) No 1907/2006 on the Registration, Evaluation, Authorization and Restriction of Chemicals 1 (abbreviated as "REACH") entered into force. |

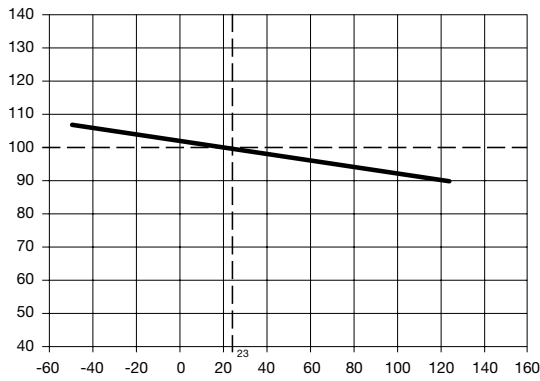
Dimension [mm]

 3.2 mm

Reflow soldering pads



Derating Curves

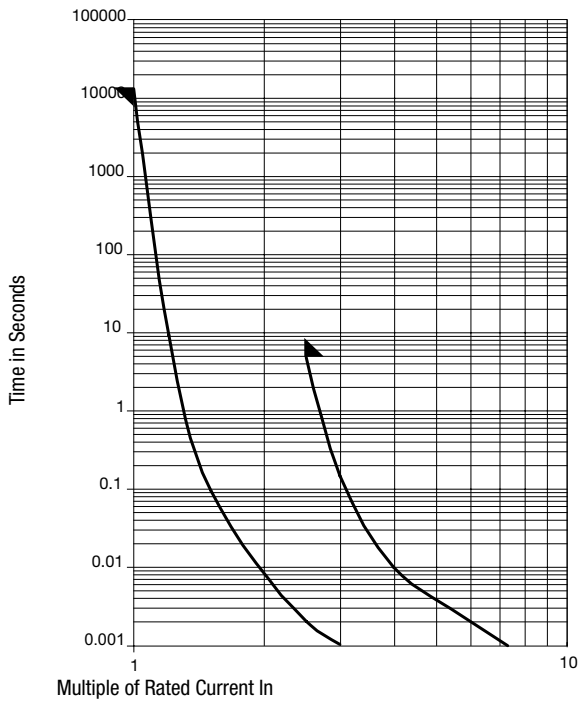


Pre-Arcing Time


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



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] | c_{UL}  | 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 |
| 0.25 | 125 | 125 | 1) | 250 | 800 | 0.0009 | ● | 3410.0022.03 |
| 0.25 | 125 | 125 | 1) | 250 | 800 | 0.0009 | ● | 3410.0022.04 |

| Rated Current [A] | Rated Voltage [VAC] | Rated Voltage [VDC] | Breaking Capacity | Voltage Drop 1.0 I _n typ. [mV] | Cold Resistance typ. [mΩ] | Melting I ² t 4.0 I _n typ. [A ² s] |  | Order Number |
|-------------------|---------------------|---------------------|-------------------|---|---------------------------|---|---|--------------|
| 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 | 125 | 2) | 83.5 | 17 | 0.23 | ● | 3410.0240.02 |
| 4 | 63 | 125 | 2) | 83.5 | 17 | 0.23 | ● | 3410.0240.03 |
| 4 | 63 | 125 | 2) | 83.5 | 17 | 0.23 | ● | 3410.0240.04 |
| 5 | 32 | 125 | 3) | 90 | 13.5 | 0.45 | ● | 3410.0141.01 |
| 5 | 32 | 125 | 3) | 90 | 13.5 | 0.45 | ● | 3410.0141.02 |
| 5 | 32 | 125 | 3) | 90 | 13.5 | 0.45 | ● | 3410.0141.03 |
| 5 | 32 | 125 | 3) | 90 | 13.5 | 0.45 | ● | 3410.0141.04 |

Availability for all products can be searched real-time: <https://www.schurter.com/en/info-center/support-tools/stock-check-distributors>

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

acc. IEC 60286-3 Type 2a

.xx = .01

.xx = .02

.xx = .03

.xx = .04

100 pcs. in tape in ESD-plastic bag

750 pcs. in tape [W: 8mm and P1: 4mm] on reel [A: 18cm]

3000 pcs. in tape [W: 8mm and P1: 4mm] on reel [A: 33cm]

10000 pcs. in tape [W: 8mm and P1: 4mm] on reel [A: 33cm]

Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

 [View 3410.0022.02 on WIN SOURCE](#)

 [Schurter Inc. Information](#)

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-  Cost Control Management
-  Shortage Management
-  Alternative Solution
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