

Solid State, Thin Film, Surface Mount Fuse for High Current Application

new



125VDC · Quick-Acting F



### Description

- Thin-film technology
- Impermeable to potting compound used to achieve hermetic seal for use in intrinsically safe applications according to ATEX and IECEx requirements.

### Unique Selling Proposition

- Compact, robust construction
- High breaking capacity up to 1000 A
- Smallest size for 15 A @ 125 VDC

### Standards

- IEC 60127-7
- UL 248-14
- CSA C22.2 no. 248.14
- ATEX EN 60079-0(-11)
- MIL-PRF-23419

### Approvals

- Approval Reference Type: HCF
- VDE Certificate Number: pending
- UL File Number: E41599

### Applications

- Applications where high reliability and availability is needed
- Aviation
- Offshore
- Fail-Safe Applications

### References

Alternative: Space version [HCSF](#)

### 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	125VAC, 125VDC
Rated current	5 - 15A
Breaking Capacity	200A - 1000A
Characteristic	Quick-Acting F
Mounting	PCB,SMT
Admissible Ambient Air Temp.	-50 °C to 125 °C
Climatic Category	55/125/56 acc. to IEC 60068-1
Material: Housing	Ceramic
Material: Terminals	Tin-Plated Copper Alloy
Unit Weight	0.8 g
Storage Conditions	0 °C to 60 °C, max. 70% r.h.
Product Marking	Variant Code, Approvals

Soldering Methods	Reflow, Wave <a href="#">Soldering Profile</a>
Solderability	245 °C / 3sec acc. to IEC 60068-2-58
Resistance to Soldering Heat	260 °C / 10sec acc. to IEC 60068-2-58, Test Td

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

Dimension [mm]

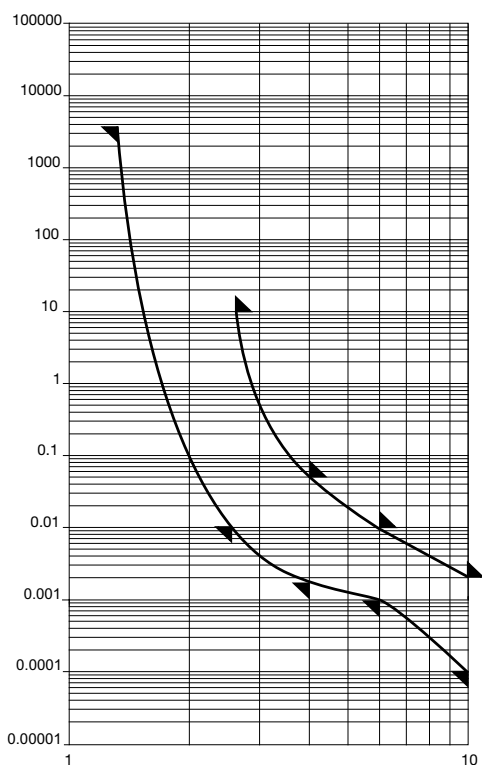


Pre-Arcing Time

Rated Current In    1.25 x In min.    2.5 x In min.    2.5 x In max.    4.0 x In min.    4.0 x In max.    6.0 x In min.    6.0 x In max.    10.0 x In min.    10.0 x In max.

5 A - 15 A	> 1 h	10 ms	10 s	2 ms	50 ms	1 ms	10 ms	0.1 ms	2 ms
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Time-Current-Curves



All Variants

Rated Current [A]	Rated Voltage [VAC]	Rated Voltage [VDC]	Breaking Capacity	Voltage Drop 1.0 In typ. [mV]	Cold Resistance typ. [mΩ]	Melting I²t 10.0 Intyp. [A²s]	Order Number
5	125	125	1)	90	14.2	1.75	3-101-056
7.5	125	125	1)	90	9.5	5.6	3-101-050
10	125	125	1)	105	8.2	11	3-101-051
15	125	125	2)	86	4.3	28	3-101-062

Rated Current [A]	Rated Voltage [VAC]	Rated Voltage [VDC]	Breaking Capacity	Voltage Drop 1.0 In typ. [mV]	Cold Resistance typ. [mΩ]	Melting I <sup>2</sup> t 10.0 Intyp. [A <sup>2</sup> s]	Order Number
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Availability for all products can be searched real-time:<http://www.schurter.com/en/Stock-Check/Stock-Check-SCHURTER>

- 1) 200 A @ 125 VAC, p.f. > 0.999 / 1000 A @ 125 VDC, L/R < 1 ms
- 2) 200 A @ 125 VAC, p.f. > 0.999 / 500 A @ 125 VDC, L/R < 1 ms

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**Packaging Unit**      Blister Tape on 18 cm Reel in ESD Plastic Bag (300 pcs.)

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