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

new



125 VDC · 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

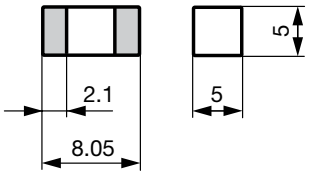
Technical Data

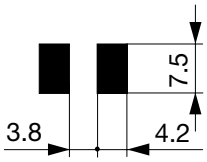
Rated Voltage	125 VAC, 125 VDC
Rated current	5 - 15 A
Breaking Capacity	200 A - 1000 A
Characteristic	Quick-Acting F
Mounting	PCB,SMT
Admissible Ambient Air Temp.	-50 °C to 125 °C
Climatic Category	55/125/56 acc. to IEC 60068-1
Material: Housing	Ceramic
Material: Terminals	Tin-Plated Copper Alloy
Unit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

Soldering Methods	Reflow, Wave Soldering Profile
Solderability	245 °C / 3 sec acc. to IEC 60068-2-58
Resistance to Soldering Heat	260 °C / 10 sec 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]

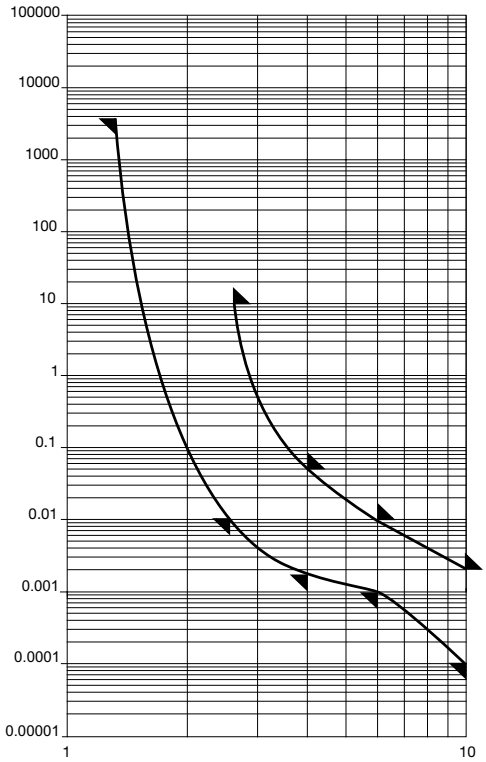




Pre-Arcing Time

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

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 I²t 10.0 Intyp. [A²s]	Order Number

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

Packaging Unit Blister Tape on 18 cm Reel in ESD Plastic Bag

10.07.2017

The specifications, descriptions and illustrations indicated in this document are based on current information. All content is subject to modifications and amendments. Information furnished is believed to be accurate and reliable. However, users should independently evaluate the suitability and test each product selected for their own applications.