Solid State, Thin Film, SMD 3220 Fuse for High Current Application



IEC 60127-7 · 125 VA	AC · 125 VDC · Quick-Acting F	See below: Approvals and Compliances				
		Applications - Applications where high reliability and availability is needed - Avionics - Medical equipment - Offshore - Defense				
quirements.	sition	References Alternative: Space version HCSF				
- Sealed and robust cons	Unique Selling Proposition - Sealed and robust construction - High breaking capacity up to 1000 A - Smallest size		Weblinks pdf data sheet, html datasheet, General Product Information, Packaging details, Distributor-Stock-Check, Detailed request for product			
Technical Data						
Rated Voltage	125 VAC, 125 VDC	Soldering Methods	Reflow, Wave			
Rated current	5 - 15A	-	Soldering Profile			
Breaking Capacity	200A - 1000A	Solderability	245 °C / 3 sec acc. to IEC 60068-2-58			
Characteristic	Quick-Acting F	Resistance to Soldering Heat	260°C / 10sec acc. to IEC 60068-2-58,			

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, Certification marks

PCB,SMT

Ceramics

-50 °C to 125 °C

55/125/56 acc. to IEC 60068-1

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
Moisture Sensitivity Level	MSL 1, J-STD-020

Approvals and Compliances

Admissible Ambient Air Temp.

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

Mounting

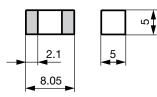
Climatic Category Material: Housing

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

Approval Logo	Certificates	Certification Body	Description
	VDE Approvals	VDE	VDE Certificate Number: 40046597
c FL [®] us	UL Approvals	UL	UL File Number: E41599

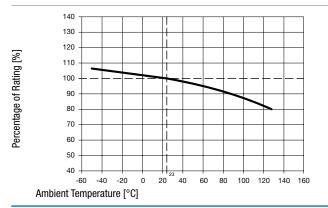
Product standa	irds		
Product standards	s that are referenced		
Organization	Design	Standard	Description
IEC	Designed according to	IEC 60127-7	Miniature fuses - Part 7: Miniature fuse-links for special applications
(h)	Designed according to	UL 248-14	Low voltage fuses - Part 14: Additional fuses
CSA Group	Designed according to	CSA22.2 No. 248.14	Low-Voltage Fuses - Part 14: Supplemental Fuses
Application sta	ndards		
Application standa	ards where the product can be used	l	
Organization	Design	Standard	Description
IEC.	Designed for applications acc.	IEC/UL 60950	IEC 60950-1 includes the basic requirements for the safety of information technology equipment.
Compliances			
The product comp	blies with following Guide Lines		
Identification	Details	Initiator	Description
CE	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.
COMPLIANT	RoHS	SCHURTER AG	Directive RoHS 2011/65/EU, Amendment (EU) 2015/836
(10)	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.
Halogen Free 145	Halogen Free	SCHURTER AG	SCHURTER strives to offer our customers halogen free products.
REACH	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]



3.8 4.2

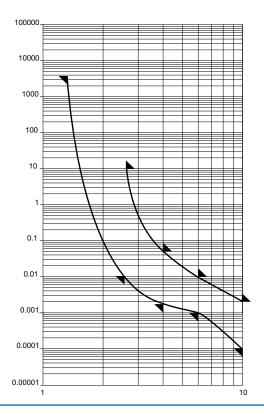
Derating Curves



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 I _n typ. [mV]	Cold Resi- stance typ. [mΩ]	Melting I ² t 10.0 I _n typ. [A ² s]	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

Availability for all products can be searched real-time:https://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 (300 pcs.)

05.08.2019

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.