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



IEC 60127-7 · 125 VAC · 1	25 VDC · Quick-Acting F	See below: Approvals and Compliances				
Description - IEC Approved - For high current applications - Max. ambient temperature 12 - Impermeable to potting comp use in intrinsically safe application	25 °C bound used to achieve hermetic seal for ations according to ATEx and IECEx re-	Applications - Applications where high relia - Avionics - Medical Equipment - Offshore - Defense	bility and availability is needed			
quirements.	ı	References Alternative: Space version				
<ul> <li>Sealed and robust construction</li> <li>High breaking capacity up to 1000 A</li> <li>Smallest size</li> </ul>		Weblinks pdf data sheet, html datasheet, General Product Information, 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 / 10 sec acc. to IEC 60068-2-58,			
Mounting	PCB,SMT		Test Td			
Admissible Ambient Air Temp.	-50 °C to 125 °C	Damp heat, steady state	IEC 60068-2-78 (40°C, 93% RH, 56			
Climatic Category	55/125/56 acc. to IEC 60068-1		days)			
Material: Housing	Ceramics	Thermal Shock	IEC 60068-2-14			

Mounting	1 00,000
Admissible Ambient Air Temp.	-50 °C to 125 °C
Climatic Category	55/125/56 acc. to IEC 60068-1
Material: Housing	Ceramics
Material: Terminals	Copper alloy, tin-plated
Unit Weight	0.8 g
Storage Conditions	0 °C to 60 °C, max. 70% r.h.
Product Marking	Variant Code, Certification marks

-	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
Damp heat, steady state	IEC 60068-2-78 (40°C, 93% RH, 56
	days)
Thermal Shock	IEC 60068-2-14
	(200 air-to-air cycles from -55 to
	+150°C)
Operational Life	MIL-STD-202, Method 108 Condition F
	2000h @ 0.8 x ln @ 125°C
Vibration, High Frequency	IEC 60068-2-6
	Shock 20 g, 20 min, 10-2000 Hz, 12
	сус.
Mechanical Shock	IEC 60068-2-27
	(12 shocks, 1600 g, 0,5 ms)

EIA/IS-722, Test 4.5.5

## **Approvals and Compliances**

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

Board Flex

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: HCF

Approval Logo	Certificates	Certification Body	Description
<u>ℓ</u> <sup>V</sup> E	VDE Approvals	VDE	VDE Certificate Number: 40046597
c <b>FL</b> <sup>°</sup> us	UL Approvals	UL	UR File Number: E41599

Product standa	ards		
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		
Organization	Design	Standard	Description
IEC.	Suitable for applications acc.	IEC/UL 62368-1	Audio/video, information and communication technology equipment - Part 1: Safety requirements
Compliances			
The product comp	olies 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.
UK CA	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.
COMPLIANT	RoHS	SCHURTER AG	Directive RoHS 2011/65/EU, Amendment (EU) 2015/863
<b>(1)</b>	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 [#F	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]





## **Derating Curves**



# Pre-Arcing Time Rated Current In 1.25 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.

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### **Time-Current-Curves**



## All Variants

Rated Current [A]	Rated Voltage [VAC]	Rated Voltage [VDC]	Breaking Capacity	Voltage Drop 1.0 I <sub>n</sub> typ. [mV]	Cold Resi- stance typ. [mΩ]	Melting I <sup>2</sup> t 10.0 I <sub>n</sub> typ. [A <sup>2</sup> s]	Order Number s
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

Rated Current [A]	Rated Voltage [VAC]	Rated Voltage [VDC]	Breaking Capacity	Voltage Drop 1.0 I <sub>n</sub> typ. [mV]	Cold Resi- stance typ. [mΩ]	Melting I <sup>2</sup> t 10.0 I <sub>n</sub> typ. [A <sup>2</sup> s]	Order Number

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

Packaging Unit acc. IEC 60286-3 Type 2a 100 pcs. in Blister Tape [W: 16mm and P1: 8mm] on Reel [A: 18cm] in ESD Plastic Bag