Surface Mount Fuse, 5.3 x 16 mm, Super-Time-Lag TT, 125 VAC / 125 VDC, Breaking Capacity ≤ 1000 A



Fail Safe Device

UL 248-14 · 125 VAC · 125 VDC · Super-Time-Lag TT

See below:

Approvals and Compliances

Description

- 5 rated currents from 5 A to 20 A
- Square design: 5.3 x 16
- Impermeable to potting compound used to achieve hermetic seal for use in intrinsically safe applications according to ATEx and IECEx requirements.

Unique Selling Proposition

- Suitable as Fail Safe Device
- Very high melting integral
- Precisely defined melting times (min/max)

Applications

- Avionics
- Wire protection
- Fail-Safe Applications
- Suitable for motor drive applications with medium to long motor cables

Other versions on request

- Different Up Screenings
- Extensive Test Reports
- Visual Inspection according MIL-PRF 55342

Weblinks

pdf data sheet, html datasheet, General Product Information, Distributor-Stock-Check, Detailed request for product, Microsite, Video

Application Note Primary Protection in Equipmentwith further information on increased Pulse Strength and their test conditions according to international standards see Impulse Withstand Voltage

Technical Data

Rated Voltage	125 VAC, 125 VDC
Rated current	5 - 20 A
Breaking Capacity	up to 1000 A
Characteristic	Super-Time-Lag TT
Mounting	PCB,SMT
Admissible Ambient Air Temp.	-55 °C to 125 °C
Climatic Category	55/125/21 acc. to IEC 60068-1
Material: Housing	Ceramics
Material: Terminals	Ni/Sn-Plated Copper Alloy
Unit Weight	1.42 g
Storage Conditions	0°C to 40°C, max. 70% r.h.
Product Marking	国, Rated current, Voltage, Characteri-
	stic, Breaking Capacity, Approvals

Soldering Methods	Reflow
	Soldering Profile
Solderability	JESD22-B102E, Method 1
Resistance to Soldering Heat	JEDEC J-STD-020
Moisture Sensitivity Level	MSL 1, J-STD-020
Moisture Resistance Test	MIL-STD-202, Method 106
Thermal Shock	MIL-STD-202, Method 107
Operational Life	MIL-STD-202, Method 108 Condition F
Load Humidity Test	MIL-STD-202, Method 103
Vibration, High Frequency	MIL-STD-202, Method 204 Condition C
Mechanical Shock	MIL-STD-202, Method 213 Condition C
Resistance to Solvents	MIL-STD-202, Method 215
Temperature Cycling	JESD22 Method JA-104
Board Flex	AEC-Q200-005

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: UMT-W

Approval Logo Certificates Certification Body Description

UL Approvals UL UL UL File Number: E41599

Product standards

Product standards that are referenced

Organization	Design	Standard	Description
<u>IEC</u>	Designed according to	IEC 60127-7	Miniature fuses - Part 7: Miniature fuse-links for special applications
(ŪL)	Designed according to	UL 248-14	Low voltage fuses - Part 14: Additional fuses

Application standards

Application standards where the product can be used

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

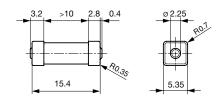
Compliances

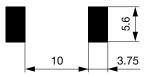
The product complies with following Guide Lines

Identification	Details	Initiator	Description
C€	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.
ROHS	RoHS	SCHURTER AG	Directive RoHS 2011/65/EU, Amendment (EU) 2015/863
50	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 HE	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.

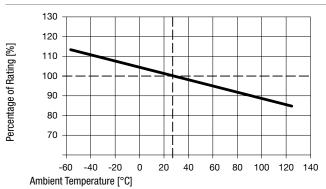
Dimension [mm]

Soldering pads





Derating Curves

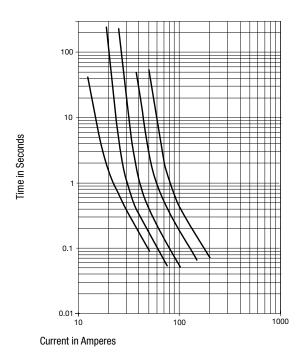




Pre-Arcing Time

Rated Current In	1.0 x In min.	2.5 x ln min.	4.0 x In min.	4.0 x ln max.	10.0 x In min.	10.0 x In max.
5 A - 20 A	4 h	3.5 s	600 ms	20 s	25 ms	1 s

Time-Current-Curves



All Variants

Order Number	Packaging [PCS]		Melting I ² t 10.0 I _n typ. [A ² s]	Power Dissipation 1.0 I _n typ. [mW]	Voltage Drop 1.0 I _n typ. [mV]	Breaking Capacity	Rated Vol- tage [VDC]	Rated Vol- tage [VAC]	Rated Cur- rent [A]
3-122-712	100	•	230	400	80	1)	125	125	5
3-122-713	1500	•	230	400	80	1)	125	125	5
3-122-714	100	•	320	300	40	2)	125	125	7.5
3-122-715	1500	•	320	300	40	2)	125	125	7.5
3-122-716	100	•	510	420	41	2)	125	125	10
3-122-717	1500	•	510	420	41	2)	125	125	10
3-122-718	100	•	1480	630	40	2)	125	125	15
3-122-719	1500	•	1480	630	40	2)	125	125	15
3-122-720	100	•	2800	835	40	2)	125	125	20
3-122-721	1500	•	2800	835	40	2)	125	125	20

Most Popular.

Availability for all products can be searched real-time:https://www.schurter.com/en/Stock-Check/Stock-Check-SCHURTER

- 1) UL = 350 A @ 125 VAC / 350 A @ 125 VDC
- 1) Internal tests = 1'500 A @ 125 VAC with $\cos(\phi) \ge$ 0.75 / 1500 A @ 250 VDC with τ <0.3 ms
- 2) UL = 350 A @ 125 VAC / 350 A @ 125 VDC
- 2) Internal tests = 1'000 A @ 125 VAC with $\cos(\phi) \ge$ 0.75 / 500 A @ 125 VDC with τ <0.3 ms

All measurements are carried out on a test board according to IEC 60127 with the following tracks:

5 A: Track width 5.0 mm, Cu layer 35 μm



Rated Cur-	Rated Vol-	Rated Vol-	Breaking	Voltage Drop	Power Dissi-	Melting I ² t	Packaging [PCS]	Order Number
rent [A]	tage [VAC]	tage [VDC]	Capacity	1.0 l _n typ. [mV]	pation 1.0 I _n typ. [mW]	10.0 l _n typ. c AL ° _{us}		

7.5 A: Track width 7.5 mm, Cu layer 70 μm

10 A: Track width 7.5 mm, Cu layer 140 μm

15 A, 20 A: Track width 10 mm, Cu layer 140 μm

Packaging Unit

acc. IEC 60286-3 Type 2a

100 pcs in ESD-plastic bag

1500 pcs. in tape [W: 24mm and P1: 8mm] on reel [A: 33cm]

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0.375A 125V (G) 1211015 S1206-F-3.0A 9321315278 S0603-F-4.0A SMT1315AP 0603TD-4A 1240FH-30A R451003.L R451.500L

R451001.L 3-103-119 3-103-123 3-103-127 0154002.DRL 0154008.DRL 0154.500DRL 189140.1,25 189140.0,8 189140.0,4 189140.0,63

189140.0,25 0468003.WR 0494001.NRHF 0494002.NRHF 0494003.NRHF 049402.5NRHF 049403.5NRHF 0494.250NRHF

0494.375NRHF 0494.500NRHF CF06V3T1R60 CF06V3T2R50 JFC0603-1200FS