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 re- 	Applications - Avionics - Wire protection - Fail-Safe Applications - Suitable for motor drive applications with medium to long motor cables				
 use in intrinsically sale 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) 	Other versions on request Different Up Screenings Extensive Test Reports Visual Inspection according MIL-PRF 55342 				
	References Packaging Details				
	Weblinks pdf data sheet, html datasheet, General Product Information, Packaging details, Distributor-Stock-Check, Detailed request for product, Microsite,				

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

Video

Technical Data			
Rated Voltage	125 VAC, 125 VDC	Soldering Methods	Reflow
Rated current	5 - 20A	-	Soldering Profile
Breaking Capacity	up to 1000A	Solderability	JESD22-B102E, Method 1
Characteristic	Super-Time-Lag TT	Resistance to Soldering Heat	JEDEC J-STD-020
Mounting	PCB,SMT	Moisture Sensitivity Level	MSL 1, J-STD-020
Admissible Ambient Air Temp.	-55 °C to 125 °C	Moisture Resistance Test	MIL-STD-202, Method 106
Climatic Category	55/125/21 acc. to IEC 60068-1	Thermal Shock	MIL-STD-202, Method 107
Material: Housing	Ceramics	Operational Life	MIL-STD-202, Method 108 Condition F
Material: Terminals	Ni/Sn-Plated Copper Alloy	Load Humidity Test	MIL-STD-202, Method 103
Unit Weight	1.42 g	Vibration, High Frequency	MIL-STD-202, Method 204 Condition C
Storage Conditions	0°C to 40°C, max. 70% r.h.	Mechanical Shock	MIL-STD-202, Method 213 Condition C
Product Marking	Rated current, Voltage, Characteri-	Resistance to Solvents	MIL-STD-202, Method 215
	stic, Breaking Capacity, Approvals	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.

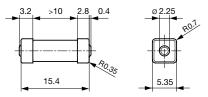
UMT-W

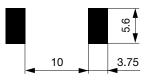
Approvals

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 Reference					
Approval Logo	Certificates	Certification Body	Description		
SU s	UL Approvals UL UL File Number: E41599				
Product standar	rds				
Product standards	that are referenced				
Organization	Design	Standard	Description		
IEC	Designed according to	IEC 60127-7	Miniature fuses - Part 7: Miniature fuse-links for special applications		
YL)	Designed according to	UL 248-14	Low voltage fuses - Part 14: Additional fuses		
Application stan					
	rds where the product can be used				
Organization	Design	Standard	Description		
IEC	Designed for applications acc.	IEC/UL 62368-1	IEC 62368-1 includes the basic requirements for safety of audio, video, information technology and office equipment.		
Compliances					
The product compl	lies 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 or its affixing in accordance with EU Regulation 765/2008.		
RoHS	RoHS	SCHURTER AG	Directive RoHS 2011/65/EU, Amendment (EU) 2015/863		
0	China RoHS	SCHURTER AG	The law SJ / T 11363-2006 (China RoHS) has been in force since 1 Marc 2007. It is similar to the EU directive RoHS.		
Halogen Free 🖙	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.		

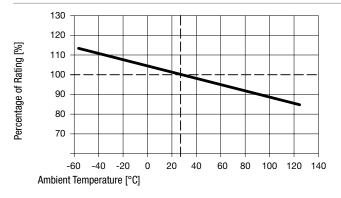
Dimension [mm]





Soldering pads

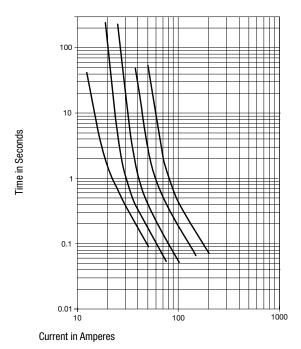
Derating Curves



Pre-Arcing Time

Rated Current In	1.0 x In min.	2.5 x In min.	4.0 x In min.	4.0 x In 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]	c '911 "us	Melting I ² t 10.0 I _n typ. [A ² s]	Power Dissi- pation 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

UMT-W

Rated Cur- rent [A]	Rated Vol- tage [VAC]	Rated Vol- tage [VDC]	Breaking Capacity	Voltage Drop 1.0 I _n typ. [mV]	Power Dissi- pation 1.0 I _n typ. [mW]	Melting I ² t 10.0 I _n typ. [A ² s]	c 911 us	Packaging [PCS]	Order Number	
20	125	125	2)	40	835	2800	•	100	3-122-720	
20	125	125	2)	40	835	2800	•	1500	3-122-721	

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 $\tau < 0.3$ 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

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 UnitPlastic Bag (100 pcs.)Blister Tape 33 cm Reel (1500 pcs.)