Surface Mount Fuse, 11 x 4.6 mm, Time-Lag T, 250 VAC, 125 VDC

Exemplary part photo depending on part no.

UL 248-14 · 250 VAC · 125 VDC · Time-Lag T

See below:
Approvals and Compliances

Description

- Directly solderable on printed circuit boards

Applications

- Primary protection on SMD PCBs
- AC and DC applications

Weblinks

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

Technical Data

Rated Voltage	250 VAC, 125 VDC
Rated current	0.75 - 5 A
Breaking Capacity	50 A - 100 A
Characteristic	Time-Lag T
Mounting	PCB,SMT
Admissible Ambient Temp.	-40 °C to 125 °C
Climatic Category	40/125/21 acc. to IEC 60068-1
Material: Housing	Thermoplastic, UL 94V-0
Material: Terminals	Copper alloy, tin-plated
Unit Weight	0.04 g
Storage Conditions	0 °C to 40 °C, max. 70% r.h.
Product Marking	, Type, Rated current, Certification marks

Soldering Methods	Reflow, Wave Soldering Profile
Solderability	245 °C / 3 sec acc. to IEC 60068-2-58, Test Td
Resistance to Soldering Heat	260 °C / 10 sec acc. to IEC 60068-2-58, Test Td
Moisture Sensitivity Level	MSL 1, J-STD-020
Case Resistance	acc. to EIA/IS-722, Test 4.7 >100 MΩ (between leeds and body)
Moisture Sensitivity Level	MIL-STD-202, Method 106 (50 cycles in a temp./mister chamber)
Thermal Shock	MIL-STD-202, Method 107D (200 air-to-air cycles from -55 to +125°C)
Vibration, High Frequency	MIL-STD-202, Method 204 Condition D
Mechanical Shock	MIL-STD-202, Method 213 Condition A
Resistance to Solvents	MIL-STD-202, Method 215
Terminal Strength	MIL-STD-202, Method 211A (Deflection of board 1 mm for 1 minute)

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: OMT

Approval Logo	Certificates	Certification Body	Description
c UL us	UL Approvals	UL	UR File Number: E41599

Product standards

Product standards that are referenced

Organization	Design	Standard	Description
	Designed according to	UL 248-14	Low voltage fuses - Part 14: Supplemental fuses
	Designed according to	CSA22.2 No. 248.14	Low-Voltage Fuses - Part 14: Supplemental Fuses

Application standards

Application standards where the product can be used

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

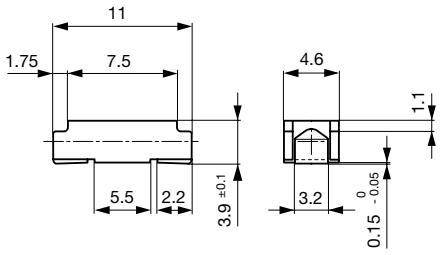
Compliances

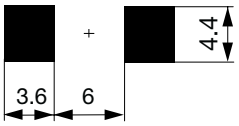
The product complies with following Guide Lines

Identification	Details	Initiator	Description
	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.
	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	SCHURTER AG	Directive RoHS 2011/65/EU, Amendment (EU) 2015/863
	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.
	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]

11 mm



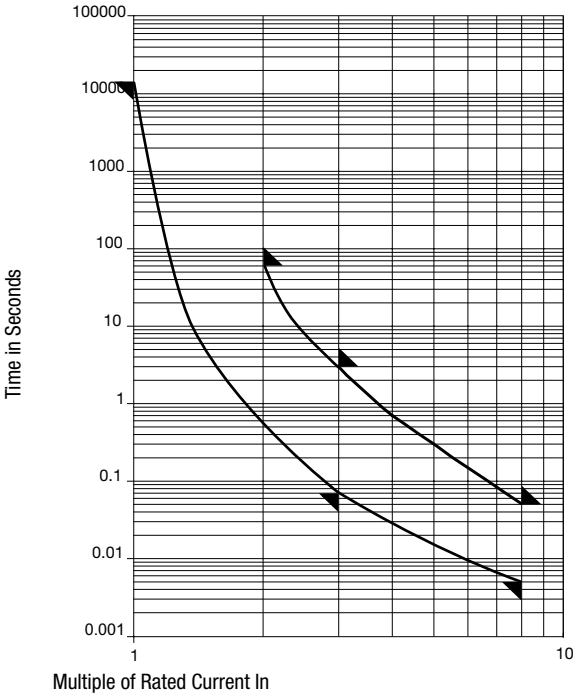


Soldering pads

Pre-Arcing Time

Rated Current In	1.0 x In min.	2.0 x In min.	2.0 x In max.	3.0 x In min.	3.0 x In max.	8.0 x In min.	8.0 x In max.
0.75 A - 5 A	4 h	100 ms	60 s	70 ms	3 s	5 ms	50 ms

Time-Current-Curves



Variants

Rated Current [A]	Rated Voltage [VAC]	Rated Voltage [VDC]	Breaking Capacity	Voltage Drop 1.0 I_n typ. [mV]	Power Dissipation 1.0 I_n typ. [mW]	Melting I^2t 8.0 I_n typ. [A^2s]	c UL us	Order Number
0.75	250	125 VDC	1)	216	162	0.36	●	3403.0129.11
0.75	250	125 VDC	1)	216	162	0.36	●	3403.0129.24
1	250	125 VDC	1)	182	182	0.99	●	3403.0116.11
1	250	125 VDC	1)	182	182	0.99	●	3403.0116.24
1.25	250	125 VDC	1)	164	205	1.67	●	3403.0117.11
1.25	250	125 VDC	1)	164	205	1.67	●	3403.0117.24
1.5	250	125 VDC	2)	148	222	2.89	●	3403.0130.11
1.5	250	125 VDC	2)	148	222	2.89	●	3403.0130.24
2	250	125 VDC	2)	69	138	4	●	3403.0119.11
2	250	125 VDC	2)	69	138	4	●	3403.0119.24
2.5	125	125 VDC	3)	68	170	7	●	3403.0120.11
2.5	125	125 VDC	3)	68	170	7	●	3403.0120.24
3	125	125 VDC	3)	62	186	12	●	3403.0131.11
3	125	125 VDC	3)	62	186	12	●	3403.0131.24
3.5	125	125 VDC	3)	60	210	19	●	3403.0132.11
3.5	125	125 VDC	3)	60	210	19	●	3403.0132.24
4	125	125 VDC	3)	60	240	23	●	3403.0122.11
4	125	125 VDC	3)	60	240	23	●	3403.0122.24
5	125	125 VDC	3)	57	285	37	●	3403.0123.11
5	125	125 VDC	3)	57	285	37	●	3403.0123.24

Availability for all products can be searched real-time: https://www.schurter.com/en/info-center/support-tools/stock-check-distributors

1) 100 A @ 250 VAC / 100 A @ 125 VDC

2) 50 A @ 250 VAC / 100 A @ 125 VAC / 100 A @ 125 VDC

3) 100 A @ 125 VAC / 100 A @ 125 VDC

Packaging Unit acc. IEC 60286-3 Type 2a	.xx = .11 .xx = .24	100 pcs in ESD-plastic bag 2000 pcs. in tape [W: 24mm and P1: 8mm] on reel [A: 33cm]

27.03.2025