OMF 125

Surface Mount Fuse, 7.4 x 3.1 mm, Quick-Acting F, 125 VAC, 125 VDC



Exemplary part photo depending on part no.

UL 248-14 · 125 VAC · 125 VDC · Quick-Acting F

See below:
Approvals and Compliances

Description

- Directly solderable on printed circuit boards

References

Corresponding Fuseholder
Assembled Fuseholder
Fuse Kit Fuse Kit OMF

Weblinks

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

Technical Data

Rated Voltage	125 VAC, 125 VDC
Rated current	0.063 - 10 A
Breaking Capacity	100 A
Characteristic	Quick-Acting F
Mounting	PCB,SMT
Admissible Ambient Air Temp.	-40 °C to 125 °C
Climatic Category	40/85/21 acc. to IEC 60068-1
Material: Housing	Thermoplastic, UL 94V-0
Material: Terminals	Copper alloy, tin-plated
Unit Weight	0.08 g
Storage Conditions	0 °C to 60 °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)
Flammability	min. UL 94V-1 (acc. to EIA/IS-722, Test 4.12)
Moisture Resistance Test	MIL-STD-202, Method 106 (50 cycles in a temp./mister chamber)
Load Humidity Test	MIL-STD-202, Method 103 0.1 x In @ 0.85 r.H. @ 85°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: OMF 125

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: Additional 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
	Designed for applications acc.	IEC/UL 62368-1	Audio/video, information and communication technology equipment - Part 1: Safety requirements

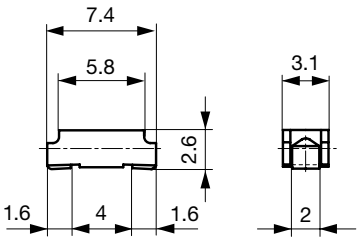
Compliances

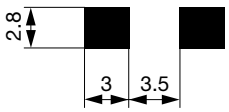
The product complies with following Guide Lines

Identification	Details	Initiator	Description
	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]

7.4 mm



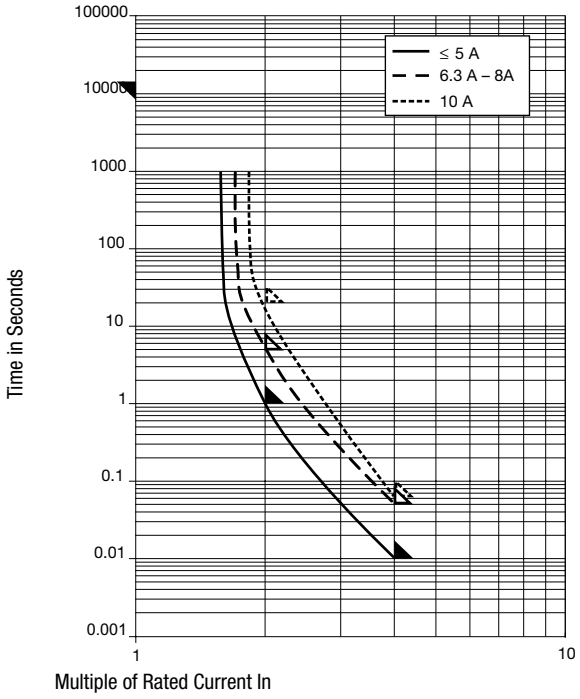


Soldering pads

Pre-Arcing Time

Rated Current In	1.0 x In min.	2.0 x In max.	4.0 x In max.
0.063 A - 5 A	4 h	1 s	10 ms
6.3 A - 8 A	4 h	5 s	50 ms
10 A	4 h	20 s	60 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]	Power Dissipation 1.0 I_n typ. [mW]	Melting I^2t 4.0 I_n typ. [A^2s]	c UL us	Order Number
0.063	125	125	1)	2550	160	0.00011	●	3404.0003.11
0.063	125	125	1)	2550	160	0.00011	●	3404.0003.22
0.063	125	125	1)	2550	160	0.00011	●	3404.0003.24
0.1	125	125	1)	1770	180	0.00067	●	3404.0004.11
0.1	125	125	1)	1770	180	0.00067	●	3404.0004.22
0.1	125	125	1)	1770	180	0.00067	●	3404.0004.24
0.125	125	125	1)	1770	220	0.0011	●	3404.0049.11
0.125	125	125	1)	1770	220	0.0011	●	3404.0049.22
0.125	125	125	1)	1770	220	0.0011	●	3404.0049.24
0.16	125	125	1)	1700	270	0.0018	●	3404.0005.11
0.16	125	125	1)	1700	270	0.0018	●	3404.0005.22
0.16	125	125	1)	1700	270	0.0018	●	3404.0005.24
0.25	125	125	1)	990	250	0.0058	●	3404.0006.11
0.25	125	125	1)	990	250	0.0058	●	3404.0006.22
0.25	125	125	1)	990	250	0.0058	●	3404.0006.24
0.35	125	125	1)	990	350	0.0076	●	3404.0043.11
0.35	125	125	1)	990	350	0.0076	●	3404.0043.22
0.35	125	125	1)	990	350	0.0076	●	3404.0043.24
0.375	125	125	1)	990	370	0.013	●	3404.0044.11
0.375	125	125	1)	990	370	0.013	●	3404.0044.22
0.375	125	125	1)	990	370	0.013	●	3404.0044.24
0.4	125	125	1)	960	380	0.016	●	3404.0007.11
0.4	125	125	1)	960	380	0.016	●	3404.0007.22
0.4	125	125	1)	960	380	0.016	●	3404.0007.24
0.5	125	125	1)	350	150	0.01	●	3404.0045.11
0.5	125	125	1)	350	150	0.01	●	3404.0045.22
0.5	125	125	1)	350	150	0.01	●	3404.0045.24
0.63	125	125	1)	290	180	0.02	●	3404.0008.11

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 4.0 I_n typ. [A^2s]	cULus	Order Number	
0.63	125	125	1)	290	180	0.02	●	3404.0008.22	
0.63	125	125	1)	290	180	0.02	●	3404.0008.24	
0.75	125	125	1)	260	200	0.031	●	3404.0046.11	
0.75	125	125	1)	260	200	0.031	●	3404.0046.22	
0.75	125	125	1)	260	200	0.031	●	3404.0046.24	
1	125	125	1)	220	220	0.078	●	3404.0009.11	▮
1	125	125	1)	220	220	0.078	●	3404.0009.22	▮
1	125	125	1)	220	220	0.078	●	3404.0009.24	
1.25	125	125	1)	220	280	0.14	●	3404.0010.11	
1.25	125	125	1)	220	280	0.14	●	3404.0010.22	
1.25	125	125	1)	220	280	0.14	●	3404.0010.24	
1.5	125	125	1)	200	300	0.24	●	3404.0047.11	
1.5	125	125	1)	200	300	0.24	●	3404.0047.22	
1.5	125	125	1)	200	300	0.24	●	3404.0047.24	
1.6	125	125	1)	200	320	0.27	●	3404.0011.11	
1.6	125	125	1)	200	320	0.27	●	3404.0011.22	
1.6	125	125	1)	200	320	0.27	●	3404.0011.24	
2	125	125	1)	200	400	0.44	●	3404.0012.11	▮
2	125	125	1)	200	400	0.44	●	3404.0012.22	
2	125	125	1)	200	400	0.44	●	3404.0012.24	
2.5	125	125	1)	190	480	0.97	●	3404.0013.11	
2.5	125	125	1)	190	480	0.97	●	3404.0013.22	
2.5	125	125	1)	190	480	0.97	●	3404.0013.24	
3	125	125	1)	190	570	1.3	●	3404.0014.11	▮
3	125	125	1)	190	570	1.3	●	3404.0014.22	
3	125	125	1)	190	570	1.3	●	3404.0014.24	
3.15	125	125	1)	190	600	1.2	●	3404.0048.11	
3.15	125	125	1)	190	600	1.2	●	3404.0048.22	
3.15	125	125	1)	190	600	1.2	●	3404.0048.24	
3.5	125	125	1)	140	490	1.6	●	3404.0015.11	
3.5	125	125	1)	140	490	1.6	●	3404.0015.22	
3.5	125	125	1)	140	490	1.6	●	3404.0015.24	
4	125	125	1)	182	728	2.25	●	3404.0016.11	▮
4	125	125	1)	182	728	2.25	●	3404.0016.22	▮
4	125	125	1)	182	728	2.25	●	3404.0016.24	
5	125	125	1)	140	700	2.9	●	3404.0017.11	▮
5	125	125	1)	140	700	2.9	●	3404.0017.22	▮
5	125	125	1)	140	700	2.9	●	3404.0017.24	
6.3	125	125	1)	110	690	14	●	3404.0018.11	▮
6.3	125	125	1)	110	690	14	●	3404.0018.22	
6.3	125	125	1)	110	690	14	●	3404.0018.24	
7	125	125	1)	105	740	16	●	3404.0019.11	▮
7	125	125	1)	105	740	16	●	3404.0019.22	
7	125	125	1)	105	740	16	●	3404.0019.24	
8	125	125	1)	100	800	20	●	3404.0020.11	
8	125	125	1)	100	800	20	●	3404.0020.22	
8	125	125	1)	100	800	20	●	3404.0020.24	
10	125	125	1)	80	800	54	●	3404.0021.11	▮
10	125	125	1)	80	800	54	●	3404.0021.22	▮
10	125	125	1)	80	800	54	●	3404.0021.24	

▮ Most Popular.

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

1) 100 A @ 125 VAC, cos φ = 0.99 - 1; 100 A @ 125 VDC tau < 1 ms

Packaging Unit acc. IEC 60286-3 Type 2a	.xx = .11	100 St. in ESD-plastic bag
	.xx = .22	750 pcs. in tape [W: 16mm and P1: 8mm] on reel [A: 18cm]
	.xx = .24	3000 pcs. in tape [W: 16mm and P1: 8mm] on reel [A: 33cm]

21.03.2022

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.