Surface Mount Fuse, 7 x 2 mm, Quick-Acting F, 125 VAC, 125 VDC



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

See below:

Approvals and Compliances

Description

- High breaking capacity
- Directly solderable on printed circuit boards

Applications

- Telecom
- Household appliances

References

Square Footprint Type MKF Corresponding Fuseholder

Weblinks

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

Technical Data	
Rated Voltage	63 - 125 VAC, 65 - 125 VDC
Rated current	0.063 - 15A
Breaking Capacity	300 A
Characteristic	Quick-Acting F
Mounting	PCB,SMT
Admissible Ambient Air Temp.	-55 °C to 125 °C
Climatic Category	55/125/56 acc. to IEC 60068-1
Material: Tube	Ceramics
Material: Endcaps	Copper alloy, tin-plated
Unit Weight	0.07 g
Storage Conditions	0°C to 60°C, max. 70% r.h.
Product Marking	国, Rated current

Soldering Methods	Reflow, Wave
	Soldering Profile
Solderability	235°C / 2 sec acc. to IEC 60068-2-58,
	Test Td,Fig. 2B (Reflow) // 245 °C / 3
	sec (Wave)
Resistance to Soldering Heat	260°C / 10 sec acc. to IEC 60068-2-58,
	Test Td
Moisture Sensitivity Level	MSL 1, J-STD-020

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: 172876

Approval Logo	Certificates	Certification Body	Description
c FL °us	UL Approvals	UL	UR File Number: E42088

Product standards

Product standards that are referenced

Organization	Design	Standard	Description
(UL)	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 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

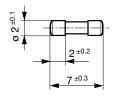
Compliances

The product complies with following Guide Lines

Identification	Details	Initiator	Description
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.
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.
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]





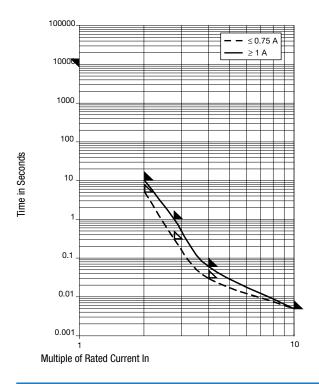


Soldering pads

Pre-Arcing Time

Rated Current In	1.0 x In min.	2.0 x In max.	2.75 x In max.	4.0 x In max.	10.0 x In max.
0.063 A - 0.75 A	4 h	5 s	300 ms	30 ms	5 ms
1 A - 15 A	4 h	10 s	-	60 ms	5 ms

Time-Current-Curves



All Variants

Rated Current [A] Rated Voltage [VDC] Rated Voltage [VDC] Ustage DVDC Power Dissipation 1.01 (mV) Melting [Ft (10.01 km)] Voltage DVDC 0.063 125 125 1) 590 37 0.00022 • 7010.9750.63 0.063 125 125 1) 590 37 0.00022 • 7010.9750.63 0.125 125 125 1) 690 30 0.00024 • 7010.9750.63 0.25 125 125 1) 275 69 0.0061 • 7010.9760.63 0.25 125 125 1) 275 69 0.0061 • 7010.9760.63 0.25 125 125 1) 215 81 0.012 • 7010.9760.63 0.375 125 125 1) 215 81 0.012 • 7010.9780.63 0.375 125 125 1) 205 103 0.046 • 7010.9780.63 0.5 125 125 1) 205 103 0.046									
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0.25 125 125 1) 275 69 0.0061 ▼ 7010.9770.63 0.25 125 125 1) 275 69 0.0061 ▼ 7010.9770.57 0.375 125 125 1) 215 81 0.012 ▼ 7010.9780.63 0.375 125 125 1) 215 81 0.012 ▼ 7010.9780.57 0.5 125 125 1) 205 103 0.046 ▼ 7010.9780.57 0.5 125 125 1) 205 103 0.046 ▼ 7010.9790.63 0.5 125 125 1) 205 103 0.046 ▼ 7010.9790.57 0.75 125 125 1) 190 143 0.09 ▼ 7010.980.63 0.75 125 125 1) 190 143 0.09 ▼ 7010.980.63 1 125 125 1) 180 180 0.11 ▼ 7010.980.63 1 125	7010.9750.57	•	0.00022	37	590	1)	125	125	0.063
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0.375 125 125 1) 215 81 0.012 ▼ 7010.9780.63 0.375 125 125 1) 215 81 0.012 ▼ 7010.9780.57 0.5 125 125 1) 205 103 0.046 ▼ 7010.9790.63 0.5 125 125 1) 205 103 0.046 ▼ 7010.9790.57 0.75 125 125 1) 190 143 0.09 ▼ 7010.9800.63 0.75 125 125 1) 190 143 0.09 ▼ 7010.9800.63 1 125 125 1) 180 180 0.11 ▼ 7010.9800.57 1 125 125 1) 180 180 0.11 ▼ 7010.9800.57 1.5 125 125 1) 180 180 0.11 ▼ 7010.9810.57 1.5 125 125 1) 185 278 0.25 ▼ 7010.9820.57 1.5 125	7010.9770.63	•	0.0061	69	275	1)	125	125	0.25
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0.5 125 125 1) 205 103 0.046 ● 7010.9790.57 0.75 125 125 1) 190 143 0.09 ● 7010.9800.63 0.75 125 125 1) 190 143 0.09 ● 7010.9800.57 1 125 125 1) 180 180 0.11 ● 7010.9810.63 1 125 125 1) 180 180 0.11 ● 7010.9810.63 1.5 125 125 1) 185 278 0.25 ● 7010.9820.63 1.5 125 125 1) 185 278 0.25 ● 7010.9820.63 1.5 125 125 1) 160 320 0.72 ● 7010.9820.57 2 125 125 1) 160 320 0.72 ● 7010.9830.63 2 125 125 1) 160 320 0.72 ● 7010.9830.63 2.5 125 125 </td <td>7010.9780.57</td> <td>•</td> <td>0.012</td> <td>81</td> <td>215</td> <td>1)</td> <td>125</td> <td>125</td> <td>0.375</td>	7010.9780.57	•	0.012	81	215	1)	125	125	0.375
0.75 125 125 1) 190 143 0.09 ● 7010.9800.63 0.75 125 125 1) 190 143 0.09 ● 7010.9800.57 1 125 125 1) 180 180 0.11 ● 7010.9810.63 1 125 125 1) 180 180 0.11 ● 7010.9810.63 1.5 125 125 1) 185 278 0.25 ● 7010.9820.63 1.5 125 125 1) 185 278 0.25 ● 7010.9820.63 1.5 125 125 1) 185 278 0.25 ● 7010.9820.63 1.5 125 125 1) 160 320 0.72 ● 7010.9820.63 2 125 125 1) 160 320 0.72 ● 7010.9830.63 2.5 125 125 1) 160 400 0.91 ● 7010.9840.63 2.5 125 1) </td <td>7010.9790.63</td> <td>•</td> <td>0.046</td> <td>103</td> <td>205</td> <td>1)</td> <td>125</td> <td>125</td> <td>0.5</td>	7010.9790.63	•	0.046	103	205	1)	125	125	0.5
0.75 125 125 1) 190 143 0.09 ▼ 7010.9800.57 1 125 125 1) 180 180 0.11 ▼ 7010.9810.63 1 125 125 1) 180 180 0.11 ▼ 7010.9810.57 1.5 125 125 1) 185 278 0.25 ▼ 7010.9820.63 1.5 125 125 1) 185 278 0.25 ▼ 7010.9820.63 1.5 125 125 1) 185 278 0.25 ▼ 7010.9820.63 2 125 125 1) 160 320 0.72 ▼ 7010.9830.63 2 125 125 1) 160 320 0.72 ▼ 7010.9830.63 2.5 125 125 1) 160 400 0.91 ▼ 7010.9840.63 2.5 125 125 1) 160 400 0.91 ▼ 7010.9840.63 3 125 125 1) 155 465 1.3 ▼ 7010.9850.63 3 125 </td <td>7010.9790.57</td> <td>•</td> <td>0.046</td> <td>103</td> <td>205</td> <td>1)</td> <td>125</td> <td>125</td> <td>0.5</td>	7010.9790.57	•	0.046	103	205	1)	125	125	0.5
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2 125 125 1) 160 320 0.72 ● 7010.9830.57 2.5 125 125 1) 160 400 0.91 ● 7010.9840.63 2.5 125 125 1) 160 400 0.91 ● 7010.9840.57 3 125 125 1) 155 465 1.3 ● 7010.9850.63 3 125 125 1) 155 465 1.3 ● 7010.9850.57 3.5 125 125 1) 145 510 1.7 ● 7010.9860.63 3.5 125 125 1) 145 510 1.7 ● 7010.9860.63 3.5 125 125 1) 145 510 1.7 ● 7010.9860.63 4 125 125 1) 140 560 2.6 ● 7010.9870.63 4 125 125 1) 140 560 2.6 ● 7010.9870.57 5 63 125 2) 125 625 4 ● 7010.9880.63 5 63	7010.9820.57	•	0.25	278	185	1)	125	125	1.5
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2.5 125 125 1) 160 400 0.91 ● 7010.9840.57 3 125 125 1) 155 465 1.3 ● 7010.9850.63 3 125 125 1) 155 465 1.3 ● 7010.9850.57 3.5 125 125 1) 145 510 1.7 ● 7010.9860.63 3.5 125 125 1) 145 510 1.7 ● 7010.9860.57 4 125 125 1) 140 560 2.6 ● 7010.9870.63 4 125 125 1) 140 560 2.6 ● 7010.9870.57 5 63 125 2) 125 625 4 ● 7010.9880.63 5 63 125 2) 125 625 4 ● 7010.9880.57	7010.9830.57	•	0.72	320	160	1)	125	125	2
3 125 125 1) 155 465 1.3 ◆ 7010.9850.63 3 125 125 1) 155 465 1.3 ◆ 7010.9850.57 3.5 125 125 1) 145 510 1.7 ◆ 7010.9860.63 3.5 125 125 1) 145 510 1.7 ◆ 7010.9860.57 4 125 125 1) 140 560 2.6 ◆ 7010.9870.63 4 125 125 1) 140 560 2.6 ◆ 7010.9870.57 5 63 125 2) 125 625 4 ◆ 7010.9880.63 5 63 125 2) 125 625 4 ◆ 7010.9880.57	7010.9840.63	•	0.91	400	160	1)	125	125	2.5
3 125 125 1) 155 465 1.3 ◆ 7010.9850.57 3.5 125 125 1) 145 510 1.7 ◆ 7010.9860.63 3.5 125 125 1) 145 510 1.7 ◆ 7010.9860.57 4 125 125 1) 140 560 2.6 ◆ 7010.9870.63 4 125 125 1) 140 560 2.6 ◆ 7010.9870.57 5 63 125 2) 125 625 4 ◆ 7010.9880.63 5 63 125 2) 125 625 4 ◆ 7010.9880.57	7010.9840.57	•	0.91	400	160	1)	125	125	2.5
3.5 125 125 1) 145 510 1.7 ◆ 7010.9860.63 3.5 125 125 1) 145 510 1.7 ◆ 7010.9860.57 4 125 125 1) 140 560 2.6 ◆ 7010.9870.63 4 125 125 1) 140 560 2.6 ◆ 7010.9870.57 5 63 125 2) 125 625 4 ◆ 7010.9880.63 5 63 125 2) 125 625 4 ◆ 7010.9880.57	7010.9850.63	•	1.3	465	155	1)	125	125	3
3.5 125 125 1) 145 510 1.7 ◆ 7010.9860.57 4 125 125 1) 140 560 2.6 ◆ 7010.9870.63 4 125 125 1) 140 560 2.6 ◆ 7010.9870.57 5 63 125 2) 125 625 4 ◆ 7010.9880.63 5 63 125 2) 125 625 4 ◆ 7010.9880.57	7010.9850.57	•	1.3	465	155	1)	125	125	3
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4 125 125 1) 140 560 2.6 ◆ 7010.9870.57 5 63 125 2) 125 625 4 ◆ 7010.9880.63 5 63 125 2) 125 625 4 ◆ 7010.9880.57	7010.9860.57	•	1.7	510	145	1)	125	125	3.5
5 63 125 2) 125 625 4 ● 7010.9880.63 5 63 125 2) 125 625 4 ● 7010.9880.57	7010.9870.63	•	2.6	560	140	1)	125	125	4
5 63 125 2) 125 625 4 ● 7010.9880.57	7010.9870.57	•	2.6	560	140	1)	125	125	4
'	7010.9880.63	•	4	625	125	2)	125	63	5
7 63 125 2) 120 840 8.5 ● 7010.9890.63	7010.9880.57	•	4	625	125	2)	125	63	5
	7010.9890.63	•	8.5	840	120	2)	125	63	7

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. c us [A ² s]	Order Number
7	63	125	2)	120	840	8.5 ●	7010.9890.57
10	65	65	3)	110	1100	31 ●	7010.9892.63
10	65	65	3)	110	1100	31 ●	7010.9892.57
12	65	65	3)	115	1380	48 ●	7010.9894.63
12	65	65	3)	115	1380	48 ●	7010.9894.57
15	65	65	3)	105	1575	92 •	7010.9896.63
15	65	65	3)	105	1575	92 ●	7010.9896.57

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1) 300 A @ 125 VAC , $\cos \phi \ge$ 0.95 / 300 A @ 125 VDC resistiv

2) 300 A @ 63 VAC , $\cos\phi \ge$ 0.95 / 300 A @ 125 VDC resistiv

3) 300 A @ 65 VAC , cos $\phi \geq$ 0.95 / 300 A @ 65 VDC resistiv

acc. IEC 60286-3 Type 2a .xx = .57 1500 pcs. in tape [W: 16mm and P1: 4mm] on reel [A: 18cm]	Packaging Unit	.xx = .63	100 St. in ESD-plastic bag
	acc. IEC 60286-3 Type 2a	.xx = .57	1500 pcs. in tape [W: 16mm and P1: 4mm] on reel [A: 18cm]

product selected for their own applications.