Surface Mount Fuse, 7 x 2.54 mm, Quick-Acting F, 125 VAC, 125 VDC



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# 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

Packaging Details

Round Solder Pads Type 172876

## Weblinks

pdf data sheet, html datasheet, General Product Information, Packaging details, 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 85 °C
Climatic Category	55/085/56 acc. to IEC 60068-1
Material: Tube	Ceramics
Material: Endcaps	Tin-Plated Copper Alloy
Unit Weight	0.15 g
Storage Conditions	0°C to 60°C, max. 70% r.h.

■, Rated current

Soldering Methods	Reflow, Wave
	Soldering Profile
Solderability	235°C / 2 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

## **Approvals and Compliances**

Product Marking

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: MKF

Approval Logo	Certificates	Certification Body	Description
c <b>FL</b> °us	UL Approvals	UL	UL 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 60950	IEC 60950-1 includes the basic requirements for the safety of information technology equipment.

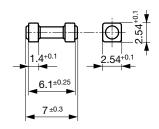
## Compliances

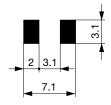
The product complies with following Guide Lines

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.
RoHS	RoHS	SCHURTER AG	Directive RoHS 2011/65/EU, Amendment (EU) 2015/836
<b>50</b>	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]







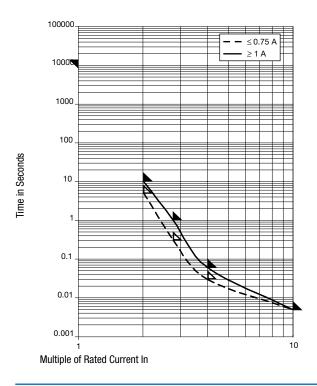
Soldering pads

# **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**

rent [A]     tage [VAC]     tage [VDC]     Capacity     1.0 1, typ (mV)     pation 1.0 1, typ (mV)     10.0 1, typ (mV)     20.0 1, a 1,								
0.063   125   125   1)   505   32   0.00022   ▼ 7010.9900.57     0.125   125   125   1)   590   74   0.0024   ▼ 7010.9901.03     0.125   125   125   1)   590   74   0.0024   ▼ 7010.9901.03     0.25   125   125   1)   235   59   0.0061   ▼ 7010.9902.03     0.25   125   125   1)   235   59   0.0061   ▼ 7010.9902.03     0.375   125   125   1)   205   77   0.012   ▼ 7010.9903.03     0.375   125   125   1)   205   77   0.012   ▼ 7010.9903.03     0.5   125   125   1)   190   95   0.046   ▼ 7010.9903.03     0.5   125   125   1)   190   95   0.046   ▼ 7010.9904.03     0.5   125   125   1)   190   95   0.046   ▼ 7010.9904.03     0.5   125   125   1)   170   128   0.09   ▼ 7010.9904.03	Rated Cur- rent [A]			•	1.0 I <sub>n</sub> typ.	pation 1.0 I <sub>n</sub>	10.0 I <sub>n</sub> typ.	Order Number
0.125     125     125     1)     590     74     0.0024     ▼ 7010.9901.03       0.125     125     125     1)     590     74     0.0024     ▼ 7010.9901.03       0.25     125     125     1)     235     59     0.0061     ▼ 7010.9902.03       0.25     125     125     1)     235     59     0.0061     ▼ 7010.9902.03       0.375     125     125     1)     205     77     0.012     ▼ 7010.9903.03       0.375     125     125     1)     205     77     0.012     ▼ 7010.9903.03       0.5     125     125     1)     190     95     0.046     ▼ 7010.9903.03       0.5     125     125     1)     190     95     0.046     ▼ 7010.9904.03       0.5     125     125     1)     170     128     0.09     ▼ 7010.9904.03       0.75     125     125     1)     170     128     0.09     ▼ 7010.9905.03       1     125	0.063	125	125	1)	505	32	0.00022	7010.9900.03
0.125   125   125   1)   590   74   0.0024   ◆ 7010.9901.57     0.25   125   125   1)   235   59   0.0061   ◆ 7010.9902.03     0.25   125   125   1)   235   59   0.0061   ◆ 7010.9903.03     0.375   125   125   1)   205   77   0.012   ◆ 7010.9903.03     0.375   125   125   1)   190   95   0.046   ◆ 7010.9904.03     0.5   125   125   1)   190   95   0.046   ◆ 7010.9904.03     0.5   125   125   1)   190   95   0.046   ◆ 7010.9904.03     0.5   125   125   1)   190   95   0.046   ◆ 7010.9904.03     0.5   125   125   1)   170   128   0.09   ◆ 7010.9906.03     0.75   125   125   1)   170   128   0.09   ◆ 7010.9906.03     1   125   125   1)   155   155   0.11   ● 7010.9906.03     1<	0.063	125	125	1)	505	32	0.00022	7010.9900.57
0.25   125   125   1)   235   59   0.0061   ▼ 7010.9902.05     0.25   125   125   1)   235   59   0.0061   ▼ 7010.9903.03     0.375   125   125   1)   205   77   0.012   ▼ 7010.9903.03     0.5   125   125   1)   190   95   0.046   ▼ 7010.9904.03     0.5   125   125   1)   190   95   0.046   ▼ 7010.9904.05     0.5   125   125   1)   190   95   0.046   ▼ 7010.9904.05     0.75   125   125   1)   170   128   0.09   ▼ 7010.9905.05     0.75   125   125   1)   170   128   0.09   ▼ 7010.9905.05     0.75   125   125   1)   170   128   0.09   ▼ 7010.9905.05     1   125   125   1)   155   155   0.11   ▼ 7010.9905.05     1   125   125   1)   155   155   0.11   ▼ 7010.9906.05     1	0.125	125	125	1)	590	74	0.0024	7010.9901.03
0.25   125   125   1)   235   59   0.0061   ● 7010.9902.57     0.375   125   125   1)   205   77   0.012   ● 7010.9903.03     0.375   125   125   1)   205   77   0.012   ● 7010.9904.03     0.5   125   125   1)   190   95   0.046   ● 7010.9904.03     0.5   125   125   1)   190   95   0.046   ● 7010.9904.03     0.5   125   125   1)   190   95   0.046   ● 7010.9904.03     0.75   125   125   1)   170   128   0.09   ● 7010.9905.03     0.75   125   125   1)   170   128   0.09   ● 7010.9905.03     1   125   125   1)   155   155   0.11   ● 7010.9906.03     1   125   125   1)   155   155   0.11   ● 7010.9906.03     1   125   125   1)   160   240   0.25   ● 7010.9907.03     1.5	0.125	125	125	1)	590	74	0.0024	7010.9901.57
0.375   125   125   1)   205   77   0.012   ● 7010.9903.03     0.375   125   125   1)   205   77   0.012   ● 7010.9904.03     0.5   125   125   1)   190   95   0.046   ● 7010.9904.03     0.5   125   125   1)   190   95   0.046   ● 7010.9905.03     0.75   125   125   1)   170   128   0.09   ● 7010.9905.03     0.75   125   125   1)   170   128   0.09   ● 7010.9905.03     1   125   125   1)   170   128   0.09   ● 7010.9905.03     1   125   125   1)   155   155   0.11   ● 7010.9906.03     1   125   125   1)   155   155   0.11   ● 7010.9906.03     1   125   125   1)   160   240   0.25   ● 7010.9907.03     1.5   125   125   1)   160   240   0.25   ● 7010.9907.53     2   <	0.25	125	125	1)	235	59	0.0061	7010.9902.03
0.375	0.25	125	125	1)	235	59	0.0061	7010.9902.57
0.5	0.375	125	125	1)	205	77	0.012	7010.9903.03
0.5   125   125   1)   190   95   0.046   ◆ 7010.9904.57     0.75   125   125   1)   170   128   0.09   ◆ 7010.9905.03     0.75   125   125   1)   170   128   0.09   ◆ 7010.9905.57     1   125   125   1)   155   155   0.11   ◆ 7010.9906.03     1   125   125   1)   155   155   0.11   ◆ 7010.9906.03     1   125   125   1)   160   240   0.25   ◆ 7010.9907.03     1.5   125   125   1)   160   240   0.25   ◆ 7010.9907.03     1.5   125   125   1)   160   240   0.25   ◆ 7010.9907.03     2   125   125   1)   150   300   0.72   ◆ 7010.9907.57     2   125   125   1)   150   300   0.72   ◆ 7010.9908.03     2   125   125   1)   145   363   0.91   ◆ 7010.9908.57     2.5   125	0.375	125	125	1)	205	77	0.012	7010.9903.57
0.75   125   125   1)   170   128   0.09   ▼ 7010.9905.05     0.75   125   125   1)   170   128   0.09   ▼ 7010.9905.57     1   125   125   1)   155   155   0.11   ▼ 7010.9906.03     1   125   125   1)   155   155   0.11   ▼ 7010.9907.03     1.5   125   125   1)   160   240   0.25   ▼ 7010.9907.05     1.5   125   125   1)   160   240   0.25   ▼ 7010.9907.05     2   125   125   1)   150   300   0.72   ▼ 7010.9908.03     2   125   125   1)   150   300   0.72   ▼ 7010.9908.03     2   125   125   1)   145   363   0.91   ▼ 7010.9908.03     2.5   125   125   1)   145   363   0.91   ▼ 7010.9908.03     2.5   125   125   1)   145   363   0.91   ▼ 7010.9908.03     3   125	0.5	125	125	1)	190	95	0.046	7010.9904.03
0.75   125   125   1)   170   128   0.09   ▼ 7010.9905.57     1   125   125   1)   155   155   0.11   ● 7010.9906.03     1   125   125   1)   155   155   0.11   ● 7010.9907.03     1.5   125   125   1)   160   240   0.25   ● 7010.9907.03     1.5   125   125   1)   160   240   0.25   ● 7010.9907.03     1.5   125   125   1)   160   240   0.25   ● 7010.9907.03     2   125   125   1)   150   300   0.72   ● 7010.9907.57     2   125   125   1)   150   300   0.72   ● 7010.9908.03     2   125   125   1)   145   363   0.91   ● 7010.9908.57     2.5   125   125   1)   145   363   0.91   ● 7010.9909.03     2.5   125   125   1)   145   435   1.3   ● 7010.9910.03     3   125 </td <td>0.5</td> <td>125</td> <td>125</td> <td>1)</td> <td>190</td> <td>95</td> <td>0.046</td> <td>7010.9904.57</td>	0.5	125	125	1)	190	95	0.046	7010.9904.57
1   125   125   1)   155   155   0.11   ● 7010.9906.03     1   125   125   1)   155   155   0.11   ● 7010.9906.03     1.5   125   125   1)   160   240   0.25   ● 7010.9907.03     1.5   125   125   1)   160   240   0.25   ● 7010.9907.57     2   125   125   1)   150   300   0.72   ● 7010.9908.03     2   125   125   1)   150   300   0.72   ● 7010.9908.03     2   125   125   1)   145   363   0.91   ● 7010.9908.03     2.5   125   125   1)   145   363   0.91   ● 7010.9908.03     2.5   125   125   1)   145   363   0.91   ● 7010.9908.03     2.5   125   125   1)   145   363   0.91   ● 7010.9908.03     2.5   125   125   1)   145   363   0.91   ● 7010.9908.03     3   125 </td <td>0.75</td> <td>125</td> <td>125</td> <td>1)</td> <td>170</td> <td>128</td> <td>0.09</td> <td>7010.9905.03</td>	0.75	125	125	1)	170	128	0.09	7010.9905.03
1   125   125   1)   155   155   0.11   7010.9906.57     1.5   125   125   1)   160   240   0.25   7010.9907.03     1.5   125   125   1)   160   240   0.25   7010.9908.03     2   125   125   1)   150   300   0.72   7010.9908.03     2   125   125   1)   150   300   0.72   7010.9908.57     2.5   125   125   1)   145   363   0.91   7010.9908.57     2.5   125   125   1)   145   363   0.91   7010.9909.57     3   125   125   1)   145   363   0.91   7010.9909.57     3   125   125   1)   145   435   1.3   7010.9910.57     3.5   125   125   1)   145   435   1.3   7010.9910.57     3.5   125   125   1)   140   490   1.7   7010.9911.57     4   125   125	0.75	125	125	1)	170	128	0.09	7010.9905.57
1.5   125   125   1)   160   240   0.25   7010.9907.03     1.5   125   125   1)   160   240   0.25   7010.9907.57     2   125   125   1)   150   300   0.72   7010.9908.03     2   125   125   1)   150   300   0.72   7010.9908.57     2.5   125   125   1)   145   363   0.91   7010.9909.03     2.5   125   125   1)   145   363   0.91   7010.9909.57     3   125   125   1)   145   435   1.3   7010.9910.03     3   125   125   1)   145   435   1.3   7010.9910.57     3.5   125   125   1)   140   490   1.7   7010.9911.03     3.5   125   125   1)   140   490   1.7   7010.9912.03     4   125   125   1)   135   540   2.6   7010.9912.57     5   63   125	1	125	125	1)	155	155	0.11	7010.9906.03
1.5   125   125   1)   160   240   0.25   ▼ 7010.9907.57     2   125   125   1)   150   300   0.72   ▼ 7010.9908.03     2   125   125   1)   150   300   0.72   ▼ 7010.9908.57     2.5   125   125   1)   145   363   0.91   ▼ 7010.9909.03     2.5   125   125   1)   145   363   0.91   ▼ 7010.9909.57     3   125   125   1)   145   435   1.3   ▼ 7010.9910.03     3   125   125   1)   145   435   1.3   ▼ 7010.9910.03     3.5   125   125   1)   140   490   1.7   ▼ 7010.9911.03     3.5   125   125   1)   140   490   1.7   ▼ 7010.9912.03     4   125   125   1)   135   540   2.6   ▼ 7010.9912.03     4   125   125   1)   135   540   2.6   ▼ 7010.9912.57     5   63	1	125	125	1)	155	155	0.11	7010.9906.57
2   125   125   1)   150   300   0.72   7010.9908.03     2   125   125   1)   150   300   0.72   7010.9908.57     2.5   125   125   1)   145   363   0.91   7010.9909.03     2.5   125   125   1)   145   363   0.91   7010.9909.57     3   125   125   1)   145   435   1.3   7010.9910.03     3   125   125   1)   145   435   1.3   7010.9910.57     3.5   125   125   1)   140   490   1.7   7010.9911.03     3.5   125   125   1)   140   490   1.7   7010.9912.03     4   125   125   1)   135   540   2.6   7010.9912.57     5   63   125   2)   125   625   4   7010.9913.03	1.5	125	125	1)	160	240	0.25	7010.9907.03
2   125   125   1)   150   300   0.72   ◆ 7010.9908.57     2.5   125   125   1)   145   363   0.91   ◆ 7010.9909.03     2.5   125   125   1)   145   363   0.91   ◆ 7010.9909.57     3   125   125   1)   145   435   1.3   ◆ 7010.9910.03     3   125   125   1)   145   435   1.3   ◆ 7010.9910.57     3.5   125   125   1)   140   490   1.7   ◆ 7010.9911.57     4   125   125   1)   130   40   2.6   ◆ 7010.9912.03     4   125   125   1)   135   540   2.6   ◆ 7010.9912.57     5   63   125   2)   125   625   4   ◆ 7010.9913.03	1.5	125	125	1)	160	240	0.25	7010.9907.57
2.5   125   125   1)   145   363   0.91   ▼ 7010.9909.03     2.5   125   125   1)   145   363   0.91   ▼ 7010.9909.57     3   125   125   1)   145   435   1.3   ▼ 7010.9910.03     3   125   125   1)   145   435   1.3   ▼ 7010.9910.57     3.5   125   125   1)   140   490   1.7   ▼ 7010.9911.03     3.5   125   125   1)   140   490   1.7   ▼ 7010.9911.57     4   125   125   1)   135   540   2.6   ▼ 7010.9912.03     4   125   125   1)   135   540   2.6   ▼ 7010.9912.57     5   63   125   2)   125   625   4   ▼ 7010.9913.03	2	125	125	1)	150	300	0.72	7010.9908.03
2.5   125   125   1)   145   363   0.91   ● 7010.9909.57     3   125   125   1)   145   435   1.3   ● 7010.9910.03     3   125   125   1)   145   435   1.3   ● 7010.9910.57     3.5   125   125   1)   140   490   1.7   ● 7010.9911.03     3.5   125   125   1)   140   490   1.7   ● 7010.9911.57     4   125   125   1)   135   540   2.6   ● 7010.9912.57     4   125   125   1)   135   540   2.6   ● 7010.9912.57     5   63   125   2)   125   625   4   ● 7010.9913.03	2	125	125	1)	150	300	0.72	7010.9908.57
3   125   125   1)   145   435   1.3   ● 7010.9910.03     3   125   125   1)   145   435   1.3   ● 7010.9910.57     3.5   125   125   1)   140   490   1.7   ● 7010.9911.57     4   125   125   1)   140   490   1.7   ● 7010.9911.57     4   125   125   1)   135   540   2.6   ● 7010.9912.57     4   125   125   1)   135   540   2.6   ● 7010.9912.57     5   63   125   2)   125   625   4   ● 7010.9913.03	2.5	125	125	1)	145	363	0.91	7010.9909.03
3 125 125 1) 145 435 1.3 ● 7010.9910.57   3.5 125 125 1) 140 490 1.7 ● 7010.9911.03   3.5 125 125 1) 140 490 1.7 ● 7010.9911.57   4 125 125 1) 135 540 2.6 ● 7010.9912.03   4 125 125 1) 135 540 2.6 ● 7010.9912.57   5 63 125 2) 125 625 4 ● 7010.9913.03	2.5	125	125	1)	145	363	0.91	7010.9909.57
3.5 125 125 1) 140 490 1.7 ◆ 7010.9911.03   3.5 125 125 1) 140 490 1.7 ◆ 7010.9911.57   4 125 125 1) 135 540 2.6 ◆ 7010.9912.03   4 125 125 1) 135 540 2.6 ◆ 7010.9912.57   5 63 125 2) 125 625 4 ◆ 7010.9913.03	3	125	125	1)	145	435	1.3	7010.9910.03
3.5 125 125 1) 140 490 1.7 ● 7010.9911.57   4 125 125 1) 135 540 2.6 ● 7010.9912.03   4 125 125 1) 135 540 2.6 ● 7010.9912.57   5 63 125 2) 125 625 4 ● 7010.9913.03	3	125	125	1)	145	435	1.3	7010.9910.57
4 125 125 1) 135 540 2.6 ▼ 7010.9912.03   4 125 125 1) 135 540 2.6 ▼ 7010.9912.57   5 63 125 2) 125 625 4 ▼ 7010.9913.03	3.5	125	125	1)	140	490	1.7	7010.9911.03
4 125 125 1) 135 540 2.6 ● 7010.9912.57   5 63 125 2) 125 625 4 ● 7010.9913.03	3.5	125	125	1)	140	490	1.7	7010.9911.57
5 63 125 2) 125 625 4 <b>●</b> 7010.9913.03	4	125	125	1)	135	540	2.6	7010.9912.03
·	4	125	125	1)	135	540	2.6	7010.9912.57
5 63 125 2) 125 625 4 <b>●</b> 7010.9913.57	5	63	125	2)	125	625	4	7010.9913.03
	5	63	125	2)	125	625	4	7010.9913.57



Rated Cur- rent [A]	Rated Vol- tage [VAC]	Rated Vol- tage [VDC]	Breaking Capacity	Voltage Drop 1.0 I <sub>n</sub> typ. [mV]	Power Dissipation 1.0 I <sub>n</sub> typ. [mW]	Melting I <sup>2</sup> t 10.0 I <sub>n</sub> typ. <sub>c</sub> \ \ [A <sup>2</sup> s]	Order Number
7	63	125	2)	125	875	8.5 ●	7010.9914.03
7	63	125	2)	125	875	8.5 ●	7010.9914.57
10	65	65	3)	110	1100	31 ●	7010.9915.03
10	65	65	3)	110	1100	31 ●	7010.9915.57
12	65	65	3)	110	1320	48 ●	7010.9916.03
12	65	65	3)	110	1320	48 ●	7010.9916.57
15	65	65	3)	100	1500	92 •	7010.9917.03
15	65	65	3)	100	1500	92 •	7010.9917.57

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

1) 300 A @ 125 VAC , p.f.  $\geq$  0.95 / 300 A @ 125 VDC

2) 300 A @ 63 VAC , p.f.  $\geq 0.95\,/\,300$  A @ 125 VDC

3) 300 A @ 65 VAC , p.f.  $\geq$  0.95 / 300 A @ 65 VDC

.xx = .57 Blister Tape 18 cm Reel (1500 pcs.)	Packaging Unit	.xx = .03 .xx = .55 .xx = .57	Blister Tape of 100 pcs. in Plastic Bag Blister Tape 18 cm Reel (500 pcs.) Blister Tape 18 cm Reel (1500 pcs.)	
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**Circuit Protection**