Surface Mount Fuse, 1.6 x 0.8 mm, Super-Quick-Acting FF, 32 VAC, 63 VDC



Exemplary part photo depending on part no.

UL 248-14 · 63 VAC · 63 V	DC · Super-Quick-Acting FF	See below: Approvals and Compliances				
Description - UL characteristic - Low melting l <sup>2</sup> t-values, fast ir - Impermeable to potting com		Applications - Secondary Protection DC and AC - Circuits without inrush - Semiconductor protection References Packaging Details				
		Weblinks pdf data sheet, html data sheet, General Product Information, Packagin details, Distributor-Stock-Check, Detailed request for product, Microsite				
Technical Data						
Rated Voltage 63 VAC, 63 VDC		Soldering Methods	Reflow			
Rated current 0.5 - 5A			Soldering Profile			
Breaking Capacity 50A		Solderability	245 °C / 3 sec acc. to IEC 60068-2-58 Test Td			
Characteristic Super-Quick-Acting FF						
Mounting PCB,SMT		Resistance to Soldering Heat	260 +0/-5 °C / 30 sec acc. to IPC/JE- DEC J-STD-020D, Level 1			
Admissible Ambient Air Temp55 °C to 90 °C						
Climatic Category 55/090/21 acc. to IEC 60068-1		Moisture Sensitivity Level	MSL 1, J-STD-020			
Material: Housing Fiber-reinforced plastic, UL 94V-0		Case Resistance	acc. to EIA/IS-722, Test 4.7			
Matorial: Torminals	general Ni/Sp. for 1A version Ni/Au		$>100 M\Omega$ (between leeds and body)			

Material: Housing	Fiber-reinforced plastic, UL 94V-0
Material: Terminals	general Ni/Sn, for 1A version Ni/Au
Unit Weight	0.0016 g
Storage Conditions	0°C to 60°C, max. 70% r.h.
Product Marking	Letter (see variants)

Solderability	245 °C / 3 sec acc. to IEC 60068-2-58, Test Td
Resistance to Soldering Heat	260 +0/-5 °C / 30 sec acc. to IPC/JE- DEC J-STD-020D, Level 1
Moisture Sensitivity Level	MSL 1, J-STD-020
Case Resistance	acc. to EIA/IS-722, Test 4.7 $>$ 100 M $\Omega$ (between leeds and body)
Flammability	min. UL 94V-1 (acc. to EIA/IS-722, Test 4.12)
Moisture Resistance Test	MIL-STD-202, Method 106E (50 cycles in a temp./mister chamber)
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

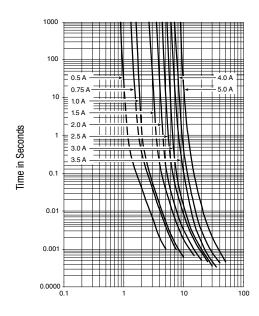
The approval mark is used by the testing authorities to certify compliance with the safety requirements placed on electronic products. Approval Reference Type: USF 0603

Approval Logo	Certificates	Certification Body	Description
c <b>FL</b> us	UL Approvals	UL	UL File Number: E41599

# USF 0603

	that are referenced				
Organization	Design	Standard	Description		
ų)	Designed according to	UL 248-14	Low voltage fuses - Part 14: Additional fuses		
CSA Group	Designed according to	CSA22.2 No. 248.14	·		
	ndards rds where the product can be used				
Organization	Design	Standard	Description		
EC.	Designed for applications acc.	IEC/UL 60950	IEC 60950-1 includes the basic requirements for the safety of information technology equipment.		
Compliances					
	lies with following Guide Lines				
Identification	Details	Initiator	Description		
C E	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	EU Directive RoHS 2011/65/EU		
0	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.		
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.		
	H 1.6 mm	SCHURTER AG	Evaluation, Authorization and Restriction of Chemicals 1 (abbreviated as		
REACH	H 1.6 mm	SCHURTER AG	Evaluation, Authorization and Restriction of Chemicals 1 (abbreviated as "REACH") entered into force.		
	H 1.6 mm 1.6  mm		Evaluation, Authorization and Restriction of Chemicals 1 (abbreviated as "REACH") entered into force.		
Dimension [mm	H 1.6 mm 1.6  mm		Evaluation, Authorization and Restriction of Chemicals 1 (abbreviated as "REACH") entered into force.		

#### **Time-Current-Curves**



**Current in Amperes** 

#### **All Variants**

Rated Cur- rent [A]	Rated Vol- tage [VAC]	Rated Vol- tage [VDC]	Marking	Breaking Capacity	Voltage Drop 1.0 I <sub>n</sub> typ. [mV]	Cold Resi- stance typ. [mΩ]	Melting I <sup>2</sup> t 8.0 I <sub>n</sub> typ. [A <sup>2</sup> s] <sub>c</sub> ¶	<b>RL</b> us	Order Number	
0.5	32	63	F	1)	125	225	0.025	•	3412.0113.11	
0.5	32	63	F	1)	125	225	0.025	•	3412.0113.22	
0.5	32	63	F	1)	125	225	0.025	•	3412.0113.24	
0.5	32	63	F	1)	125	225	0.025	•	3412.0113.26	
0.75	32	63	G	1)	110	120	0.05	•	3412.0114.11	
0.75	32	63	G	1)	110	120	0.05	•	3412.0114.22	
0.75	32	63	G	1)	110	120	0.05	•	3412.0114.24	
0.75	32	63	G	1)	110	120	0.05	•	3412.0114.26	
1	32	63	Н	1)	110	95	0.06	•	3412.0115.11	
1	32	63	н	1)	110	95	0.06	•	3412.0115.22	
1	32	63	Н	1)	110	95	0.06	•	3412.0115.24	
1	32	63	Н	1)	110	95	0.06	•	3412.0115.26	
1.5	32	63	K	1)	65	37.5	0.15	•	3412.0117.11	
1.5	32	63	К	1)	65	37.5	0.15	•	3412.0117.22	
1.5	32	63	К	1)	65	37.5	0.15	•	3412.0117.24	
1.5	32	63	К	1)	65	37.5	0.15	•	3412.0117.26	
2	32	32	Ν	2)	65	28	0.2	•	3412.0119.11	
2	32	32	Ν	2)	65	28	0.2	•	3412.0119.22	
2	32	32	Ν	2)	65	28	0.2	•	3412.0119.24	
2	32	32	Ν	2)	65	28	0.2	•	3412.0119.26	
2.5	32	32	0	2)	60	21.5	0.29	•	3412.0120.11	
2.5	32	32	0	2)	60	21.5	0.29	•	3412.0120.22	
2.5	32	32	0	2)	60	21.5	0.29	•	3412.0120.24	
2.5	32	32	0	2)	60	21.5	0.29	•	3412.0120.26	
3	32	32	Р	2)	60	17	0.32	•	3412.0121.11	
3	32	32	Р	2)	60	17	0.32	•	3412.0121.22	
3	32	32	Р	2)	60	17	0.32	•	3412.0121.24	
3	32	32	Р	2)	60	17	0.32	•	3412.0121.26	

## USF 0603

Rated Cur- rent [A]	Rated Vol- tage [VAC]	Rated Vol- tage [VDC]	Marking	Breaking Capacity	Voltage Drop 1.0 I <sub>n</sub> typ. [mV]	Cold Resi- stance typ. [mΩ]	Melting I²t 8.0 I <sub>n</sub> typ. [A²s] c	Order Number
3.5	32	32	R	2)	50	12.5	0.42	3412.0122.11
3.5	32	32	R	2)	50	12.5	0.42	3412.0122.22
3.5	32	32	R	2)	50	12.5	0.42	3412.0122.24
3.5	32	32	R	2)	50	12.5	0.42	3412.0122.26
4	32	32	S	2)	50	11	0.7	3412.0123.11
4	32	32	S	2)	50	11	0.7	3412.0123.22
4	32	32	S	2)	50	11	0.7	3412.0123.24
4	32	32	S	2)	50	11	0.7	3412.0123.26
5	32	32	Т	2)	50	9	1.15	3412.0124.11
5	32	32	Т	2)	50	9	1.15	3412.0124.22
5	32	32	Т	2)	50	9	1.15	3412.0124.24
5	32	32	Т	2)	50	9	1.15	3412.0124.26

Most Popular.

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1) 50 A @ 63 VAC,  $\cos \phi \ge 0.99$  / 50 A @ 63 VDC

2) 50 A @ 32 VAC,  $\cos \phi \ge 0.99$  / 50 A @ 32 VDC

Packaging	Unit
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.xx = .11 Blister Tape of 100 pcs. in Plastic Bag .xx = .22 Blister Tape 18 cm Reel (1000 pcs.) .xx = .24 Blister Tape 25.4 cm Reel (5000 pcs.) .xx = .26 Blister Tape 33 cm Reel (15000 pcs.)