

Subminiature Fuse, 6.4 mm, Quick-Acting F, Telecom



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

See below:

Approvals and Compliances

Description

- Directly solderable on printed circuit boards

Applications

- xDSL and ADSL linecards and modems

References

[Packaging Details](#)

Corresponding Fuseholder [FME](#); [FMR](#); [FMS \(125V\)](#)

Last order date: 31.12.2016

We recommend for new applications the type [MSF 125](#)

MSF 125 is fully compatible to MSU 125

Weblinks

[pdf datasheet](#), [html-datasheet](#), [General Product Information](#), [Packaging details](#), [Distributor-Stock-Check](#), [Detailed request for product](#)

Technical Data

Rated Voltage	125 VAC, 125 VDC
Rated current	0.25 - 3.15 A
Breaking Capacity	100 A
Characteristic	Quick-Acting F
Mounting	PCB, THT
Admissible Ambient Air Temp.	-25 °C to 85 °C
Climatic Category	25/085/21 acc. to IEC 60068-1
Material: Housing	Thermoplastic, UL 94V-0
Material: Terminals	Tin-Plated Copper
Unit Weight	0.34 g
Storage Conditions	0 °C to 40 °C, max. 70% r.h.
Product Marking	 Type, Rated current, Rated Voltage, Characteristic, Approvals

Soldering Methods	Wave Soldering Profile
Solderability	235 °C / 2 sec acc. to IEC 60068-2-20, Test Ta
Resistance to Soldering Heat	260 °C / 10 sec acc. to IEC 60068-2-20, Test Tb
Current Carrying Capacity	acc. to EIA/IS-722, Test 4.3.3
Life Test	MIL-STD-202, Method 108A (1000h @ 0.42*In @ 70°C)
Terminal Strength	MIL-STD-202, Method 211A (Deflection of board 1 mm for 1 minute)
Case Resistance	acc. to EIA/IS-722, Test 4.7 >100 MΩ (between leads and body)
Mechanical Shock	MIL-STD-202, Method 213B (Shock 50g, half sine wave, 11 ms)
Vibration, High Frequency	MIL-STD-202, Method 204D Shock 20 gn, 20 min, 10-2 kHz, 12 cyc.
Resistance to Solvents	MIL-STD-202, Method 215A
Flammability	UL 94V-0 (acc. to EIA/IS-722, Test 4.12)

Approvals and Compliances

Detailed information on product approvals, code requirements, usage instructions and detailed test conditions can be looked up in [Details about Approvals](#)

Approvals

The approval mark is used by the testing authorities to certify compliance with the safety requirements placed on electronic products.

Approval Reference Type: MSU 125

Approval Logo	Certificates	Certification Body	Description
	UL Approvals	UL	UL 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 60950	IEC 60950-1 includes the basic requirements for the safety of information technology equipment.

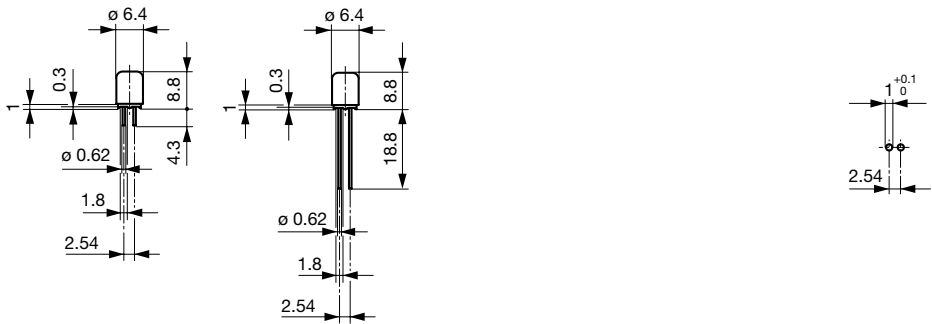
Compliances

The product complies with following Guide Lines

Identification	Details	Initiator	Description
	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	SCHURTER AG	EU Directive RoHS 2011/65/EU
	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]

6.4 mm

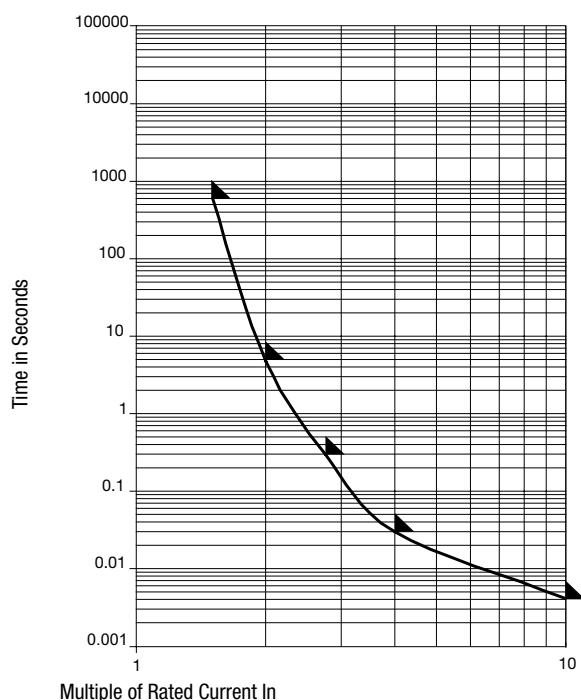


Drilling diagram

Pre-Arcing Time

Rated Current In	1.5 x In max.	2.0 x In max.	2.75 x In max.	4.0 x In max.	10.0 x In max.
0.25 A - 3.15 A	10 min	5 s	300 ms	30 ms	4 ms

Time-Current-Curves



All Variants

Rated Current [A]	Rated Voltage [VAC]	Rated Voltage [VDC]	Voltage Drop 1.0 I _n typ. [mV]	Power Dissipation 1.0 I _n typ. [mW]	Melting I ² t 10.0 Intyp. [A ² s]	GR-1089-CORE [A]	UL60950	ITU - Lightning Surge [A]	ITU - Power Induc-	ITU - Power Contact [A]	S	L	T	Order Number
0.25	125	125	620	100	0.0055	< 1.5	●	4.5	●	300.0	●			2030.0013
0.315	125	125	680	200	0.025	< 1.5	●	5.6	●	300.0	●			2030.0014
0.4	125	125	180	100	0.013	1.6	●	5.9	●	300.0	●			2030.0015
0.5	125	125	180	100	0.02	2.4	●	6.4	●	300.0	●			2030.0016
0.63	125	125	180	100	0.045	2.7	●	7.2	●	300.0	●			2030.0017
0.71	125	125	140	100	0.045	2.9	●	7.8	●	300.0	●			2030.0018
0.75	125	125	170	100	0.02	3.0	●	8.5	●	300.0	●			2030.0019
0.8	125	125	150	100	0.04	5.0	●	11	●	300.0	●			2030.0020
1	125	125	150	100	0.07	6.0	●	16	●	300.0	●			2030.0021
1.25	125	125	150	200	0.12	9.3	●	21	●	300.0	●			2030.0022
1.6	125	125	150	200	0.29	> 14.0	●	35	●	300.0	●			2030.0023
2	125	125	130	200	0.43	> 14.0	●	38	●	300.0	●			2030.0024
2.5	125	125	120	300	0.6	> 14.0	●	57	●	300.0	●			2030.0025
3.15	125	125	120	400	1.11	> 14.0	●	65	●	300.0	●			2030.0026
0.25	125	125	620	100	0.0055	< 1.5	●	4.5	●	300.0	●	●		2030.0243
0.315	125	125	680	200	0.025	< 1.5	●	5.6	●	300.0	●	●		2030.0244
0.4	125	125	180	100	0.013	1.6	●	5.9	●	300.0	●	●		2030.0245
0.5	125	125	180	100	0.02	2.4	●	6.4	●	300.0	●	●		2030.0246
0.63	125	125	180	100	0.045	2.7	●	7.2	●	300.0	●	●		2030.0247
0.71	125	125	140	100	0.045	2.9	●	7.8	●	300.0	●	●		2030.0248
0.75	125	125	170	100	0.02	3.0	●	8.5	●	300.0	●	●		2030.0249
0.8	125	125	150	100	0.04	5.0	●	11	●	300.0	●	●		2030.0250
1	125	125	150	100	0.07	6.0	●	16	●	300.0	●	●		2030.0251
1.25	125	125	150	200	0.12	9.3	●	21	●	300.0	●	●		2030.0252
1.6	125	125	150	200	0.29	> 14.0	●	35	●	300.0	●	●		2030.0253
2	125	125	130	200	0.43	> 14.0	●	38	●	300.0	●	●		2030.0254
2.5	125	125	120	300	0.6	> 14.0	●	57	●	300.0	●	●		2030.0255

Rated Cur- rent [A]	Rated Vol- tage [VAC]	Rated Vol- tage [VDC]	Voltage Drop 1.0 In typ. [mV]	Power Dissi- pation 1.0 I _n typ. [mW]	Melting I ² t 10.0 Intyp. [A²s]	GR-1089- CORE [A]	UL60950	ITU - Light- ning Surge [A]	ITU - Power Induc-	ITU - Power Contact [A]	S	L	T	Order Number
3.15	125	125	120	400	1.11	> 14.0	●	65	●	300.0	●			2030.0256

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

Packaging Unit	S =	Plastic Bag (100 pcs.)
	L =	Bulk (100 pcs.)
	T =	Taped 36 cm Reel (1000 pcs.)