

Miniature Fuse, 5 x 20 mm, Super-Time-Lag TT, NF, 220 VAC



NF C 93-435 · 220 VAC · Super-Time-Lag TT

See below:

[Approvals and Compliances](#)

### Description

- Low Breaking Capacity

### Weblinks

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

### Technical Data

Rated Voltage	32 - 220 VAC
Rated current	0.031 - 15 A
Breaking Capacity	40 A - 100 A
Characteristic	Super-Time-Lag TT
Mounting	Fuseholder / Clip
Admissible Ambient Air Temp.	-40 °C to 70 °C
Climatic Category	40/070/56 acc. to IEC 60068-1
Material: Tube	Glass
Material: Endcaps	Nickel-Plated Copper Alloy
Unit Weight	1.4 g
Storage Conditions	0 °C to 60 °C, max. 70% r.h.
Product Marking	Type, HA20, Rated current, Characteristic

Resistance to Vibration	acc. to NF C 20-706 / IEC 60068-2-6, test Fc
Shocks	acc. to NF C 20-706 / IEC 60068-2-27
Salt Mist	acc. to NF C 20-711 / IEC 60068-2-11

### 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: D1TD

Approval Logo	Certificates	Certification Body	Description
	<a href="#">UL Approvals</a>	UL	UL File Number: E42088
	<a href="#">LCIE Approvals</a>	LCIE	Norme française


### Product standards

Product standards that are referenced

Organization	Design	Standard	Description
	Designed according to	UL 248-14	Low voltage fuses - Part 14: Additional fuses





Application standards

Application standards where the product can be used

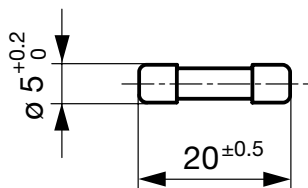
Organization	Design	Standard	Description
	Designed for applications acc.	IEC/UL 62368-1	IEC 62368-1 includes the basic requirements for safety of audio, video, information technology and office equipment.

Compliances

The product complies with following Guide Lines

Identification	Details	Initiator	Description
	<a href="#">CE declaration of conformity</a>	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	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.

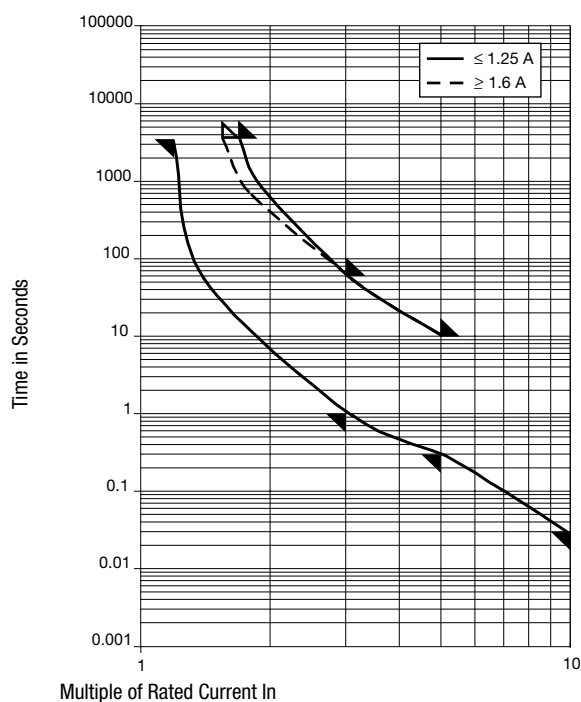
Dimension [mm]





Pre-Arcing Time

Rated Current I <sub>n</sub>	1.1 x I <sub>n</sub> min.	2.0 x I <sub>n</sub> max.	2.1 x I <sub>n</sub> max.	3.0 x I <sub>n</sub> min.	3.0 x I <sub>n</sub> max.	5.0 x I <sub>n</sub> min.	5.0 x I <sub>n</sub> max.	10.0 x I <sub>n</sub> min.
0.031 A - 1.25 A	-	10 min	-	1 s	60 s	300 ms	10 s	30 ms
1.6 A - 15 A	-	-	10 min	1 s	60 s	300 ms	10 s	30 ms



## Time-Current-Curves



## All Variants

Rated Current [A]	Rated Voltage [VAC]	Breaking Capacity	Voltage Drop 1.0 $I_n$ typ. [mV]	Power Dissipation 1.1 $I_n$ typ. [mW]	Melting I <sup>2</sup> t 10.0 $I_n$ typ. [A <sup>2</sup> s]	  GAM T1 NNO	Order Number
0.031	220	1)	3850	145	0.079	●	7030.3110
0.04	220	1)	3150	155	0.2	●	7030.3120
0.05	220	1)	2600	160	0.22	● ●	7030.3130
0.063	220	1)	2000	155	0.35	● ●	7030.3140
0.08	220	1)	1850	180	0.26	● ●	7030.3150
0.1	220	1)	1600	190	0.028	● ●	7030.3210
0.16	220	2)	745	150	0.2	● ●	7030.3230
0.2	220	2)	715	180	0.39	● ●	7030.3240
0.25	220	2)	480	150	0.4	● ●	7030.3250
0.31	220	2)	870	340	0.21	● ●	7030.3260
0.4	220	2)	665	340	0.64	● ●	7030.3270
0.5	220	2)	555	360	1	● ●	7030.3280
0.63	220	2)	460	370	1.6	● ●	7030.3290
0.8	220	2)	365	370	4.2	● ●	7030.3310
1	220	2)	295	365	9	● ●	7030.3320
1.25	220	2)	300	465	7.1	● ●	7030.3330
1.6	125	3)	280	535	22	● ●	7040.3110
2	125	3)	245	595	43	● ●	7040.3120
2.5	125	3)	210	630	128	● ●	7040.3130
3.15	125	3)	160	615	370	● ●	7040.3140
4	125	4)	165	790	260	● ●	7040.3150
5	125	4)	175	1100	440	● ●	7040.3160
6.3	125	4)	105	775	800	● ●	7040.3170
8	125	5)	105	1000	1400	●	7040.3180
10	125	5)	90	1050	2200	●	7040.3190
12.5	32	6)	55	795	890		7040.3200
15	32	6)	45	745	3400		7040.3210

Most Popular.

Rated Cur- rent [A]	Rated Vol- tage [VAC]	Breaking Capacity	Voltage Drop 1.0 I <sub>n</sub> typ. [mV]	Power Dissi- pation 1.1 I <sub>n</sub> typ. [mW]	Melting I <sup>2</sup> t 10.0 I <sub>n</sub> typ. [A <sup>2</sup> s]	  GAM T1 NNO	Order Number
------------------------	--------------------------	----------------------	---	--	--	---	--------------

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

- 1) NF: 60 A @ 220 VAC , p.f. = 1.0
- 1) UL: 4000 A @ 125 VAC , p.f. ≥ 0.9 / 4000 A @ 125 VDC , L/R = 5 ms
- 2) NF: 60 A @ 220 VAC , p.f. = 1.0
- 2) UL: 50 A @ 125 VAC , p.f. = 1.0 / 50 A @ 125 VDC , L/R = 5 ms
- 3) NF: 40 A @ 125 VAC , p.f. = 0.7 - 0.8
- 3) UL: 100 A @ 125 VAC , p.f. ≥ 0.9
- 4) NF: 40 A @ 125 VAC , p.f. = 0.7 - 0.8
- 4) UL: 50 A @ 125 VAC , p.f. ≥ 0.9
- 5) UL: 50 @ 125 VAC , p.f. ≥ 0.9
- 6) 100 A @ 32 VAC , p.f. ≥ 0.9

Packaging Unit	Small Box Pack (10 pcs.)
----------------	--------------------------