SHF 6.3x32 Pigtail

Axial Lead Fuse, 6.3x32 mm, 440 - 500 VAC, 400 - 500 VDC, 1-8 A, High Breaking Capacity ≥1500 A

new

UL 248-14 · 500 VAC · Quick-Acting F

See below:
Approvals and Compliances

Description
- 6.3 x 32 mm fuses for primary protection
- 10 rated currents from 1 A to 8 A

Unique Selling Proposition
- High rated voltages up to 500 VAC / DC
- High breaking capacity ≥ 1500 A

Applications
- 3-phase applications
- DC applications
- Power supplies
- Frequency converter
- Power electronics

References

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

Technical Data

Rated Voltage	500 VAC, 500 VDC
Rated current	1 - 8 A
Breaking Capacity	1500 A - 20 kA
Characteristic	Quick-Acting F
Mounting	Solder,THT
Admissible Ambient Temp.	-40 °C to 85 °C
Climatic Category	40/085/21 acc. to IEC 60068-1
Material: Tube	Ceramics
Material: Endcaps	Nickel-Plated Copper Alloy
Material: Axial Leads	Tin-Plated Copper
Unit Weight	3.54 g
Storage Conditions	0 °C to 60 °C, max. 70% r.h.
Product Marking	, Type, Rated current, Rated Voltage, Characteristic, Breaking capacity, Approvals
Solderability	235 °C / 2 sec acc. to IEC 60068-2-20
Resistance to Soldering Heat	260 °C / 10 sec acc. to IEC 60068-2-58

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: SHF 6.3x32 Pigtail

Approval Logo	Certificates	Certification Body	Description
c UL us	UL Approvals	UL	UR 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: Supplemental 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
	Suitable for applications acc.	IEC/UL 62368-1	Audio/video, information and communication technology equipment - Part 1: Safety requirements

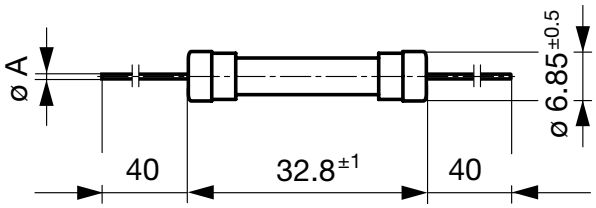
Compliances

The product complies with following Guide Lines

Identification	Details	Initiator	Description
	CE 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.
	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	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]

6.3 mm

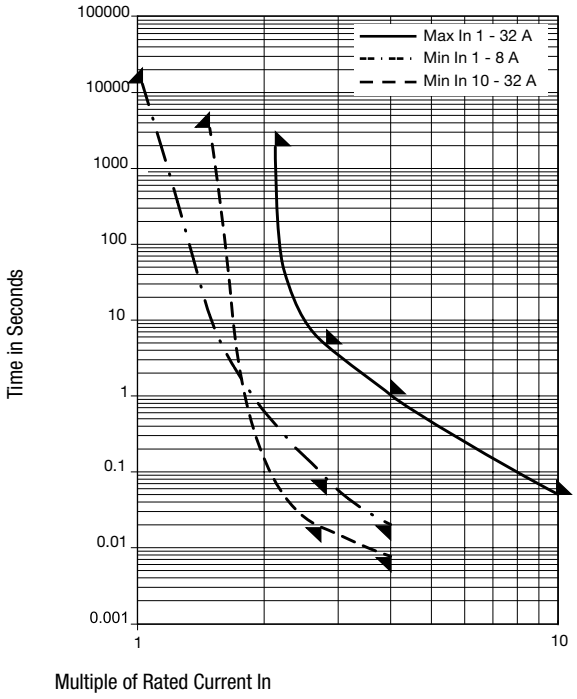


ØA = 0.8 mm

Pre-Arcing Time

Rated Current In	1.5 x In min.	2.1 x In max.	2.75 x In min.	2.75 x In max.	4.0 x In min.	4.0 x In max.	10.0 x In min.	10.0 x In max.
1 A - 1 A	60 min	30 min	20 ms	1.5 s	8 ms	400 ms	-	20 ms
1.25 A - 8 A	60 min	30 min	100 ms	5 s	20 ms	1 s	-	50 ms

Time-Current-Curves



All Variants

Rated Current [A]	Rated Voltage [VAC]	Rated Voltage [VDC]	Breaking Capacity	Voltage Drop 1.0 I_n max. [mV]	Power Dissipation 1.5 I_n max. [mW]	Melting I^2t 10.0 I_n typ. [A^2s]	cULus	Order Number
1	500	500	1)	400	1200	1.5	●	8020.5068.PT
1.25	500	500	1)	300	1300	2.9	●	8020.5069.PT
1.6	500	500	1)	300	1400	5.8	●	8020.5070.PT
2	500	400	2)	280	1700	2	●	8020.5071.PT
2.5	500	400	2)	260	2000	3.8	●	8020.5072.PT
3.15	500	400	2)	240	2300	8.6	●	8020.5073.PT
4	500	400	2)	220	2900	14.6	●	8020.5074.PT
5	500	400	2)	190	2900	33.2	●	8020.5075.PT
6.3	500	400	2)	170	3400	61.6	●	8020.5076.PT
8	500	400	2)	160	3700	120	●	8020.5077.PT

Availability for all products can be searched real-time: https://www.schurter.com/en/info-center/support-tools/stock-check-distributors

1) 1500 A @ 500 VAC, cos φ = 0.99 - 1
1500 A @ 250 VAC, cos φ = 0.7 - 0.8
10 kA @ 125 VAC, cos φ = 0.7 - 0.8
1500 A @ 500 VDC
20 kA @ 63 VDC

2) 1500 A @ 500 VAC, cos φ = 0.99 - 1
1500 A @ 250 VAC, cos φ = 0.7 - 0.8
10 kA @ 125 VAC, cos φ = 0.7 - 0.8
1500 A @ 400 VDC
20 kA @ 63 VDC

Packaging Unit Bulk (100 pcs.)

26.03.2024