Three Terminal Fuse 9.5x5.0x1.9 mm, V max 100 VDC, 30-75 A, 1-24 Cells

new



100 VDC

See below:
Approvals and Compliances

Description

- Superior Corrosion Resistance in Harsh Environments
- Excellent Solderability for Reliable PCB Assembly
- Supports Miniaturization and High-Power Density Design

Unique Selling Proposition

- Ultra-Low Contact Resistance for High Efficiency
- High Contact Reliability for Low Signals
- Enhanced Wear Resistance for Long-Term Contact Integrity
- Immunity to Gas-Induced Corrosion in Sealed Environments

Applications

- Industrial & Consumer: Power Tools, Cordless Tools, Vacuum Cleaners, UPS
- Energy: High power battery systems
- Transportation: E-bikes, E-scooter ,battery powered AGV, All Terrain Vehicle

Weblinks

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

Technical Data

Rated Voltage	100 VDC
Rated current	30 - 75 A
Operating voltage	4 - 100 VDC
Breaking Capacity	80 - 200 A
Cells in series	1 - 24
Operating Temperature	-20 °C to 85 °C
Material: Housing	Plastics (LCP)
Material: Terminals	Gold-Plated Silver Alloy
Storage Conditions	10 °C to 30 °C, 30-70% r.h.
Product Marking	, Type, Size, Voltage code, Current code, Data Code

Solderability	IEC 60068-2-58
Resistance to Soldering Heat	IEC 60068-2-58
High Temperature Storage	IEC 60068-2-2
Low Temperature Storage	IEC 60068-2-1
High And Low Temperature Cycle	IEC 60068-2-14
High Temp. & High Humidity Storage	IEC 60068-2-78
Core Body Strength	IEC 60068-2-21
Board Bending Test	IEC 60068-2-21

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: STTP

Approval Logo	Certificates	Certification Body	Description
	UL Approvals	UL	UR File Number: E554321

Product standards

Product standards that are referenced

Organization	Design	Standard	Description
IEC	Designed according to	IEC 60127-1	Miniature fuses. Part 1. General requirements
UL	Designed according to	UL 248-1	Low voltage fuses: General requirements
UL	Designed according to	UL 248-14	Low voltage fuses - Part 14: Supplemental fuses

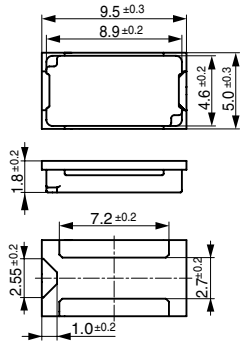
Compliances

The product complies with following Guide Lines

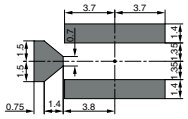
Identification	Details	Initiator	Description
CE	CE declaration of conformity	SCHURTER AG	The CE marking declares that the product complies with the applicable requirements laid down in the harmonisation of Community legislation on its affixing in accordance with EU Regulation 765/2008.
RoHS	RoHS	SCHURTER AG	Directive RoHS 2011/65/EU, Amendment (EU) 2015/863
China RoHS	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]

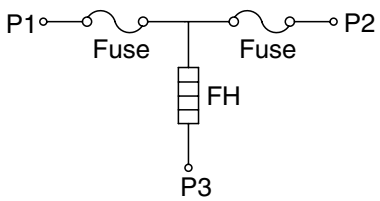
9.5 mm



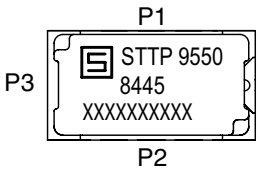
Soldering pads



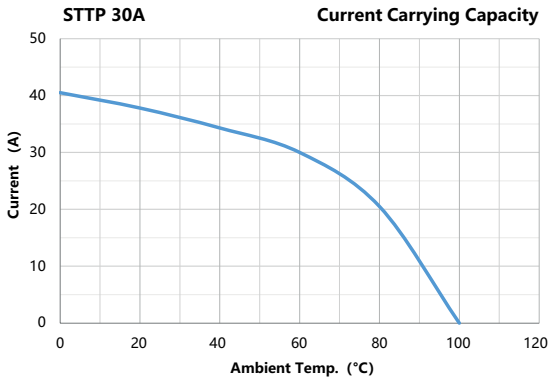
Diagrams

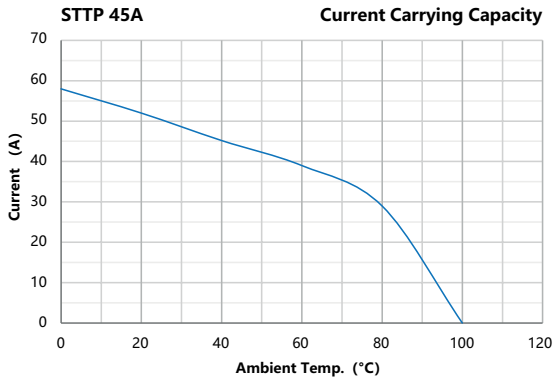


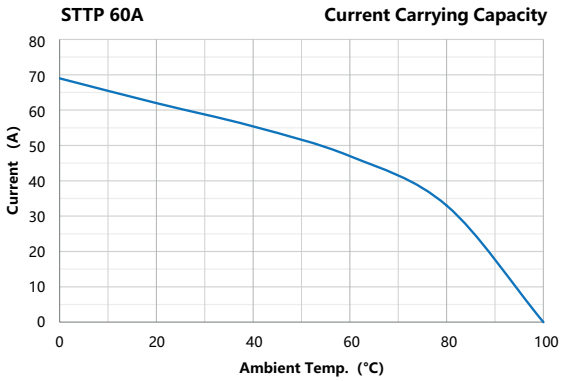
Appearance

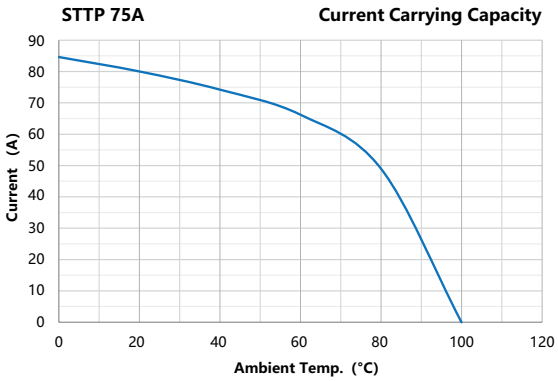


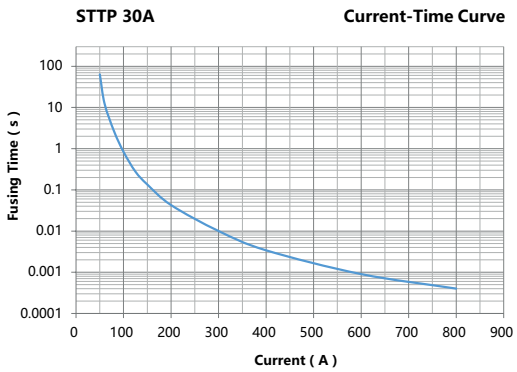
Product characteristic curve

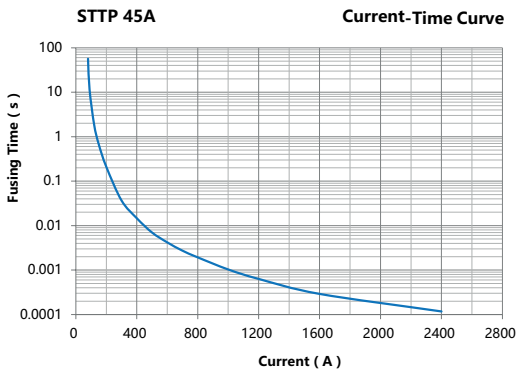


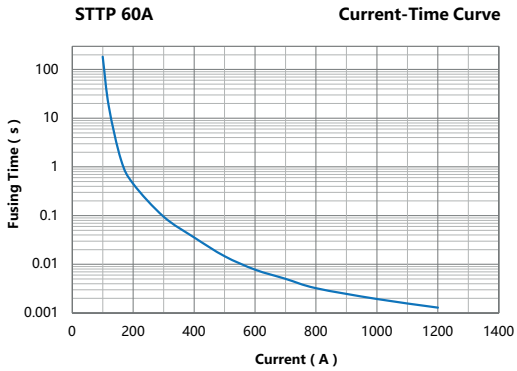


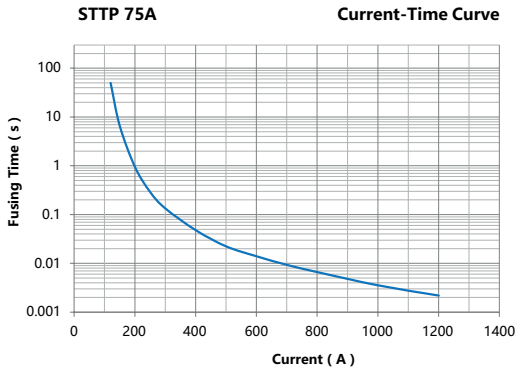


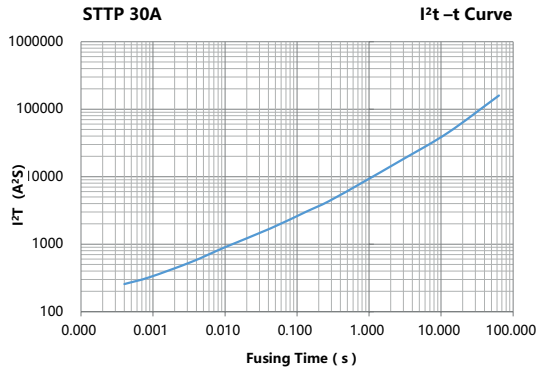


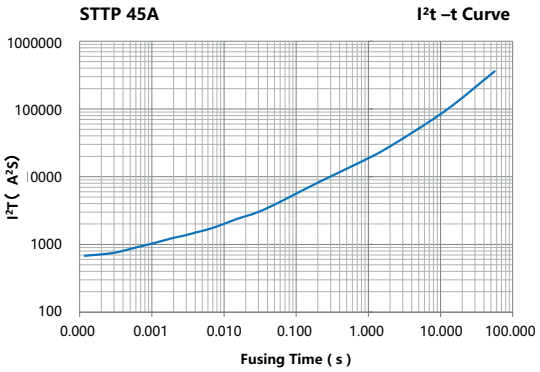


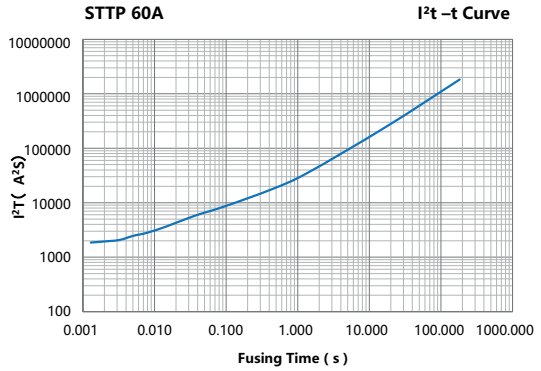


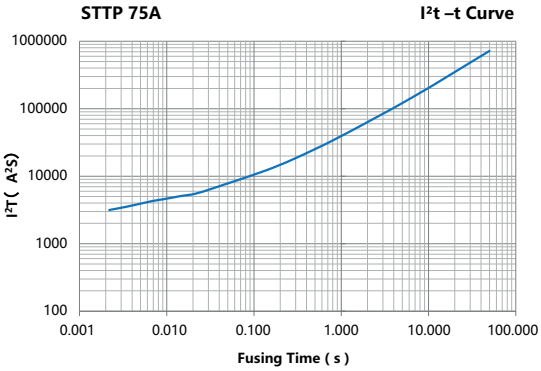


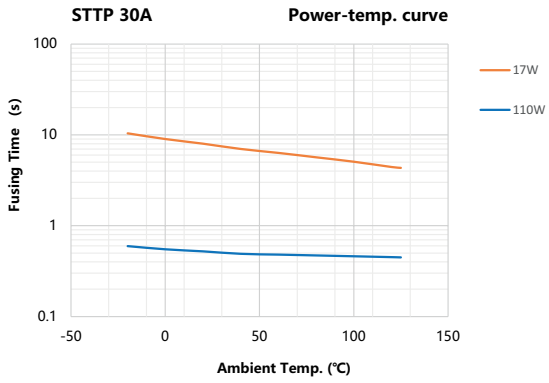


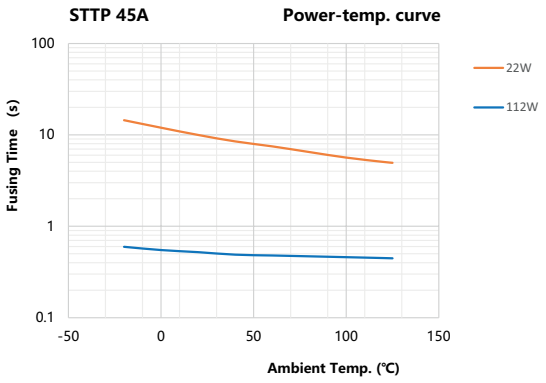

STTP 30A
I²t –t Curve
1000000
100000
10000
1000
100
I²T (A²S)
0.000
0.001
0.010
0.100
1.000
10.000
100.000
Fusing Time (s)

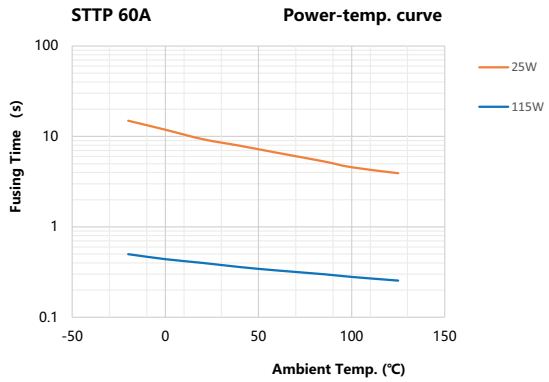

STTP 45A
I²t –t Curve
1000000
100000
10000
1000
100
I²T(A²S)
0.000
0.001
0.010
0.100
1.000
10.000
100.000
Fusing Time (s)

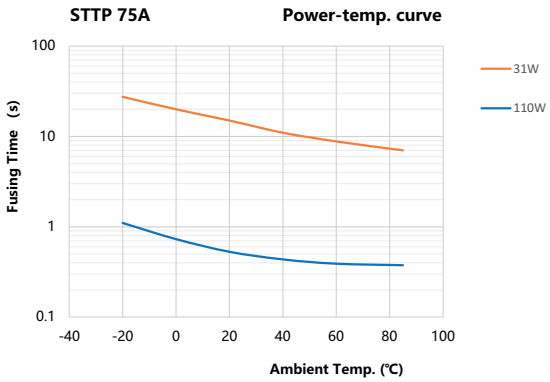

STTP 60A
I²t –t Curve
10000000
1000000
100000
10000
1000
100
I²T(A²S)
0.001
0.010
0.100
1.000
10.000
100.000
1000.000
Fusing Time (s)


STTP 75A
I²t –t Curve
1000000
100000
10000
1000
100
I²T(A²S)
0.001
0.010
0.100
1.000
10.000
100.000
Fusing Time (s)

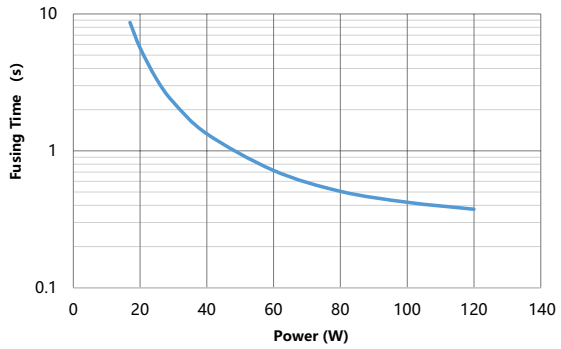

STTP 30A
Power-temp. curve
100
10
1
0.1
Fusing Time (s)
-50
0
50
100
150
Ambient Temp. (℃)
17W
110W


STTP 45A
Power-temp. curve
100
10
1
0.1
Fusing Time (s)
-50
0
50
100
150
Ambient Temp. (℃)
22W
112W

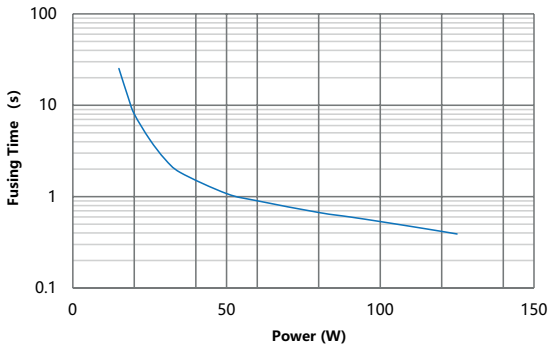

STTP 60A
Power-temp. curve
100
10
1
0.1
Fusing Time (s)
-50
0
50
100
150
Ambient Temp. (℃)
25W
115W


STTP 75A
Power-temp. curve
100
10
1
0.1
Fusing Time (s)
-40
-20
0
20
40
60
80
100
Ambient Temp. (℃)
31W
110W

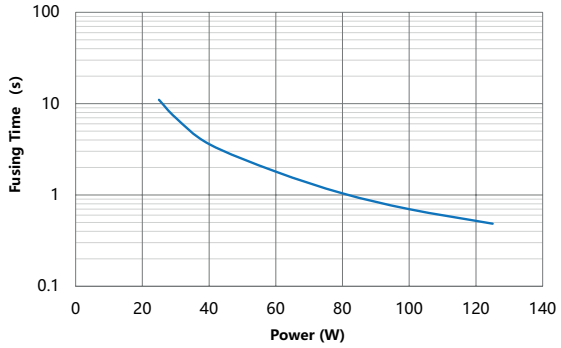
STTP 30A **Power Time Curve**



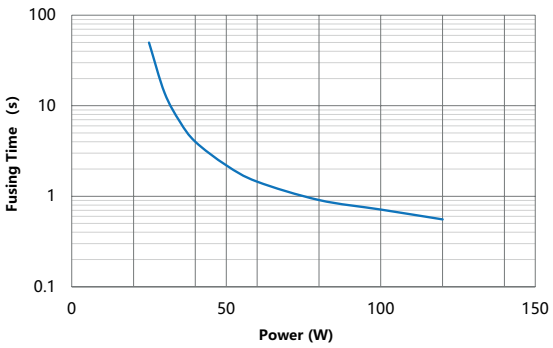
STTP 45A **Power-Time Curve**



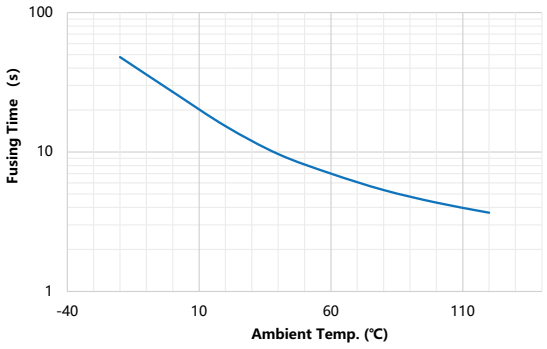
STTP 60A **Power-Time Curve**



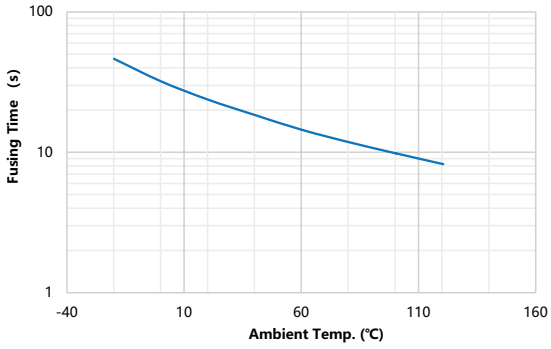
STTP 75A **Power-Time Curve**



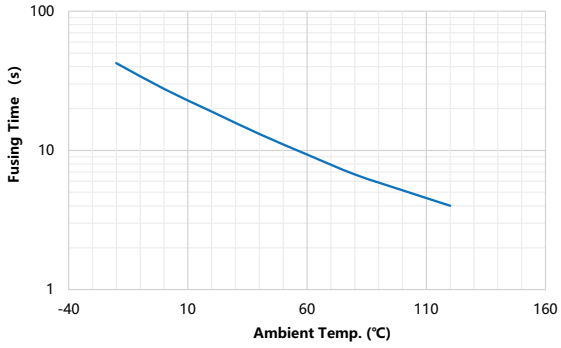
STTP 30A **Temp.-Time Curve**



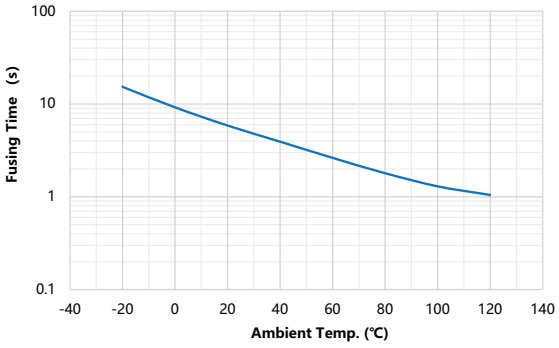
STTP 45A **Temp.-Time Curve**



STTP 60A **Temp.-Time Curve**



STTP 75A **Temp.-Time Curve**



Variants

Description	Irated [A]	Cells in series	Vmax [VDC]	Ibreak [A]	Vop [V]	Rheater [Ω]	Rfuse [mΩ]	Order Number
STTP 9550 3-terminal fuse 0430	30	1	100	80	4 ~ 6.6	0.41~1.23	0.2~2.0	3-162-124
STTP 9550 3-terminal fuse 0630	30	2	100	80	5.6 ~ 9	0.77~2.41	0.2~2.0	3-162-125
STTP 9550 3-terminal fuse 1230	30	3~4	100	80	8.4 ~ 19.1	3.4~5.4	0.2~2.0	3-162-126
STTP 9550 3-terminal fuse 2030	30	4~5	100	80	10.5 ~ 23.5	5.1 ~ 8.5	0.2~2.0	3-162-127
STTP 9550 3-terminal fuse 2430	30	5	100	80	14.0 ~ 23.5	5.1 ~ 15.1	0.2~2.0	3-162-128
STTP 9550 3-terminal fuse 3030	30	6~7	100	80	19.8 ~ 31.5	9 ~ 23.1	0.2~2.0	3-162-129
STTP 9550 3-terminal fuse 4030	30	7~11	100	80	20.2 ~ 46.9	19.8 ~ 31.4	0.2~2.0	3-162-130
STTP 9550 3-terminal fuse 4830	30	8~13	100	80	27.5 ~ 56.0	28.5 ~ 44.5	0.2~2.0	3-162-131
STTP 9550 3-terminal fuse 5030	30	10~15	100	80	28.0 ~ 62.0	34.9 ~ 46.1	0.2~2.0	3-162-132
STTP 9550 3-terminal fuse 7230	30	13~17	100	80	36.4 ~ 76.6	53.3 ~ 77.9	0.2~2.0	3-162-133
STTP 9550 3-terminal fuse 8430	30	15~24	100	80	52.5 ~ 100.8	96.8 ~ 137.8	0.2~2.0	3-162-134
STTP 9550 3-terminal fuse 0445	45	1	100	120	4.0~6.6	0.4~0.89	0.2~1.6	3-162-135
STTP 9550 3-terminal fuse 0645	45	2	100	120	5.6~9.2	0.77~1.74	0.2~1.6	3-162-136
STTP 9550 3-terminal fuse 1245	45	3	100	120	8.4~14.4	1.75~3.92	0.2~1.6	3-162-137
STTP 9550 3-terminal fuse 1445	45	4	100	120	11.2~18.4	3.02~7.0	0.2~1.6	3-162-138
STTP 9550 3-terminal fuse 2045	45	5	100	120	14.0~21.0	3.8~10.9	0.2~1.6	3-162-139
STTP 9550 3-terminal fuse 2445	45	6	100	120	16.8~27.0	6.3~15.5	0.2~1.6	3-162-140
STTP 9550 3-terminal fuse 3045	45	6~7	100	120	19.6~32.0	8.8~21.3	0.2~1.6	3-162-141
STTP 9550 3-terminal fuse 3245	45	8	100	120	22.3~37.8	12.4 ~27.6	0.2~1.6	3-162-142
STTP 9550 3-terminal fuse 4045	45	9~11	100	120	28.0~48.0	20.9~34.1	0.2~1.6	3-162-143
STTP 9550 3-terminal fuse 4845	45	11~13	100	120	30.8~58.8	27.5~41.2	0.2~1.6	3-162-144
STTP 9550 3-terminal fuse 5045	45	13~15	100	120	33.8~67.5	39.5~54.4	0.2~1.6	3-162-145
STTP 9550 3-terminal fuse 7245	45	16~20	100	120	47.6 ~ 85.0	68.8 ~ 94.4	0.2~1.6	3-162-146
STTP 9550 3-terminal fuse 8445	45	21~24	100	120	58.8~100.8	97.4~124.5	0.2~1.6	3-162-147
STTP 9550 3-terminal fuse 0660	60	2	100	180	5.6~9.0	0.7~1.57	0.2~1.2	3-162-149
STTP 9550 3-terminal fuse 1260	60	3	100	180	8.4~14.4	1.77~3.53	0.2~1.2	3-162-150
STTP 9550 3-terminal fuse 1460	60	4	100	180	11.2~18.4	3.0~7.0	0.2~1.2	3-162-151
STTP 9550 3-terminal fuse 2060	60	5	100	180	14.0~23.5	4.9~9.8	0.2~1.2	3-162-152
STTP 9550 3-terminal fuse 2460	60	6	100	180	16.7~25.2	5.5 ~13.9	0.2~1.2	3-162-153
STTP 9550 3-terminal fuse 3060	60	6~7	100	180	19.6~31.5	8.6 ~19.2	0.2~1.2	3-162-154
STTP 9550 3-terminal fuse 3260	60	8~9	100	180	22.3~37.8	12.4 ~ 24.9	0.2~1.2	3-162-155
STTP 9550 3-terminal fuse 4060	60	9~10	100	180	27.5~48.0	21.5 ~ 30.3	0.2~1.2	3-162-156
STTP 9550 3-terminal fuse 4860	60	11~12	100	180	30.0~55.0	27.5~36.0	0.2~1.2	3-162-157
STTP 9550 3-terminal fuse 5060	60	12~15	100	180	36.4~63.0	37.8 ~ 53.0	0.2~1.2	3-162-158
STTP 9550 3-terminal fuse 7260	60	16~20	100	180	47.6 ~ 85.0	66.3~94.4	0.2~1.2	3-162-159
STTP 9550 3-terminal fuse 8460	60	21~24	100	180	58.8 ~100.8	96.8 ~133.0	0.2~1.2	3-162-160
STTP 9550 3-terminal fuse 1275	75	3	100	200	8.4~13.5	1.58 ~3.0	0.2~0.9	3-162-161
STTP 9550 3-terminal fuse 1475	75	4	100	200	12.0~18.4	2.90 ~ 5.8	0.2~0.9	3-162-162
STTP 9550 3-terminal fuse 2075	75	5	100	200	15.0~23.5	4.8 ~ 9.0	0.2~0.9	3-162-163
STTP 9550 3-terminal fuse 3075	75	6~7	100	200	19.2~31.5	8.6 ~14.7	0.2~0.9	3-162-164
STTP 9550 3-terminal fuse 3275	75	8	100	200	22.4~36.4	11.5 ~19.9	0.2~0.9	3-162-165
STTP 9550 3-terminal fuse 4075	75	9~10	100	200	27.0~44.0	16.8 ~30.3	0.2~0.9	3-162-166
STTP 9550 3-terminal fuse 4875	75	11~12	100	200	30.8~51.8	23.3~37.9	0.2~0.9	3-162-167
STTP 9550 3-terminal fuse 5075	75	13~14	100	200	37.7~62.9	34.4 ~56.9	0.2~0.9	3-162-168
STTP 9550 3-terminal fuse 7275	75	15~17	100	200	50.0~76.5	55.7 ~ 80.6	0.2~0.9	3-162-169
STTP 9550 3-terminal fuse 8475	75	20	100	200	56 ~ 87.6	73.1 ~ 101.2	0.2~0.9	3-162-170

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

Packaging Unit Tape & Reel (3000 pcs.)

10.07.2026

The specifications, descriptions and illustrations indicated in this document are based on current information. All content is subject to modifications and amendments. Information furnished is believed to be accurate and reliable. However, users should independently evaluate the suitability and test each product selected for their own applications.