

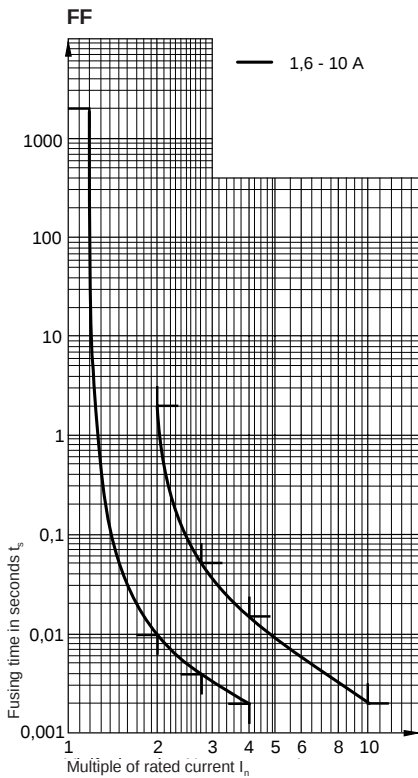
SA 5 x 20mm Super Quick-acting Fuses – High Breaking Capacity



Built according to SEMKO 104-1976

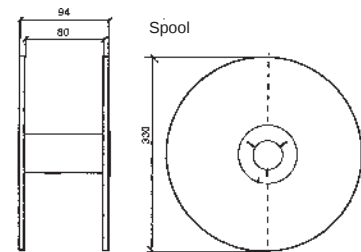
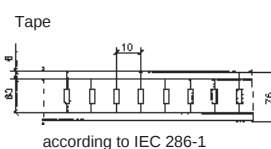
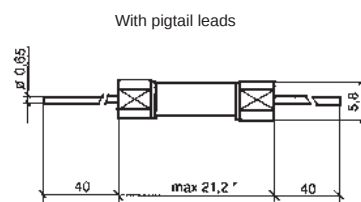
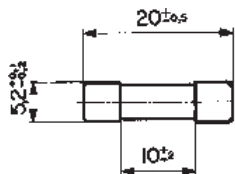
Approvals:

SEMKO approval 1.6A-6.3A File #8738128



Time Current Characteristics

n • I _n rated current I _n	1.2 • I _n		2 • I _n		2.75 • I _n		4 • I _n		10 • I _n
	min.	max.	min.	max.	min.	max.	min.	max.	max.
1.6A – 10A	60min.	10ms	2s	4ms	50ms	2ms	15ms	2ms	



Order Numbers	Rated current / rated voltage	Breaking capacity	Voltage drop at I _n		Power dissipation at 1.2 • I _n		Operating I ² t	Approvals
			max. Schurter mV	typical Schurter mV	max. Schurter Watts	typical Schurter Watts		
Series SA	A / V~	A~					A ² s	SEMKO
0034.0903	1.6 A / 250V	1500A at 250 V, 50 Hz p.f. 0.7 - 0.8	400	250	1.0	0.6	1.8	•
0034.0904	2 A / 250V		370	200	1.1	0.6	4.2	•
0034.0905	2.5 A / 250V		340	200	1.3	0.8	6.6	•
0034.0906	3.15 A / 250V		310	180	1.5	1.0	8.2	•
0034.0907	4 A / 250V		280	180	1.7	1.2	19	•
0034.0908	5 A / 250V		250	160	1.9	1.4	20	•
0034.0909	6.3 A / 250V		250	170	2.3	2.0	23	•
0034.0910	8 A / 250V		250	190	3.0	2.8	32	
0034.0911	10 A / 250V		250	160	3.7	2.9	43	

For protection of semiconductors, ask for special catalog (reference super quick-acting fuse series D GLD II / III 0034.1101 - .1115, 2A-6A/500V)

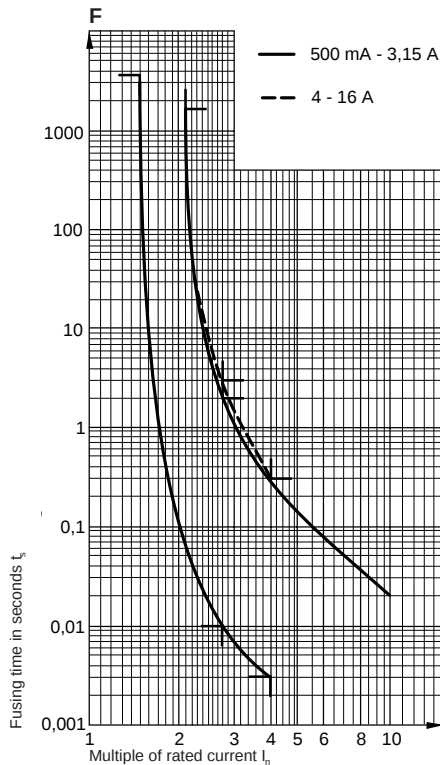
For pigtail fuses packaged loose: reference .PT after part number (e.g. 0034.0903.PT)

For pigtail fuses on 1,000-piece tape and reel: reference .TR after part number (e.g. 0034.0903.TR)

SP 5 x 20mm Quick-acting Fuses – High Breaking Capacity



Built according to IEC 127-2/1, EN 60127, SEV 1064, DIN/VDE 0820 part 1, DIN 41660, BS 4265, and SEMKO 104-1976. Recommended if the short circuit current through the fuse-link is more than 35A or $10 \times I_n$, whichever is greater (CENELEC Jan 1, 1993).



Approvals:

UL	recognition	500mA-16A*	File #E41599
CSA	acceptance	500mA-16A*	File #LR51172
VDE	approval	500mA-6.3A	File #51959
SEMKO	approval	500mA-6.3A	File numbers on request
SEV	approval	500mA-6.3A	
CB	certified	800mA-1.6A, 2.5A, 5A	

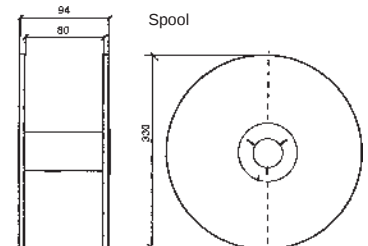
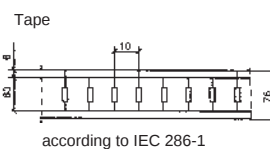
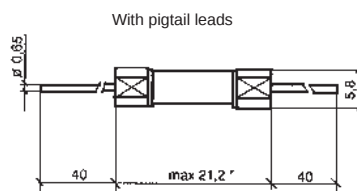
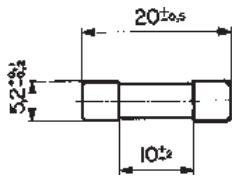
* fuses with pigtail leads approved up to 8A



Time Current Characteristics

n • I _n rated current I _n	1.5 • I _n	2.1 • I _n	2.75 • I _n		4 • I _n		10 • I _n
	min.	max.	min.	max.	min.	max.	max.
500mA – 16A	60 min.	30 min.	10 ms	2 s*	3 ms	300ms	20 ms

* 1.25A – 16A max. 3 s



Order Numbers	Rated current / rated voltage	Breaking capacity	Voltage drop at I _n		Power dissipation at 1.5 • I _n		Operating I ² t	Approvals					
			max. IEC 127 mV	typical Schurter mV	max. IEC 127 Watts	typical Schurter Watts		UL	CSA	VDE	SEMKO	SEV	CB
Series SP	mA / A / V~	A~ ac					A²s						
0001.1001	500 mA / 250V	UL: 10,000A / 125 V, p.f. 0.7 - 0.8 IEC / UL: 1,500A / 250 V, p.f. 0.7 - 0.8	1800	830	2.5	2.4	0.08	•	•	•	•	•	
0001.1002	630 mA / 250V		1500	800	2.5	2.4	0.22	•	•	•	•	•	
0001.1003	800 mA / 250V		1200	580	2.5	2.4	0.47	•	•	•	•	•	
0001.1004	1 A / 250V		1000	600	2.5	2.5	0.84	•	•	•	•	•	
0001.1005	1.25 A / 250V		800	270	4	1.0	0.92	•	•	•	•	•	
0001.1006	1.6 A / 250V		600	350	4	1.6	0.94	•	•	•	•	•	
0001.1007	2 A / 250V		500	260	4	1.6	2.7	•	•	•	•	•	
0001.1008	2.5 A / 250V		400	260	4	1.9	4.0	•	•	•	•	•	
0001.1009	3.15 A / 250V		350	210	4	1.9	8.3	•	•	•	•	•	
0001.1010	4 A / 250V		300	200	4	2.4	14	•	•	•	•	•	
0001.1011	5 A / 250V		250	160	4	2.4	37	•	•	•	•	•	
0001.1012	6.3 A / 250V		200	150	4	3.2	42	•	•	•	•	•	
0001.1013	8 A* / 250V			140		3.9	100	•	•			•	
0001.1014	10 A* / 250V			130		4.7	167	•	•			•	
0001.1015	12.5 A* / 250V	1,000A / 125V, p.f. 1.0 500A / 125V, p.f. 0.7 - 0.8		110		6.9	286	•	•				
0001.1016	16 A* / 250V			120		7.4	504	•	•				

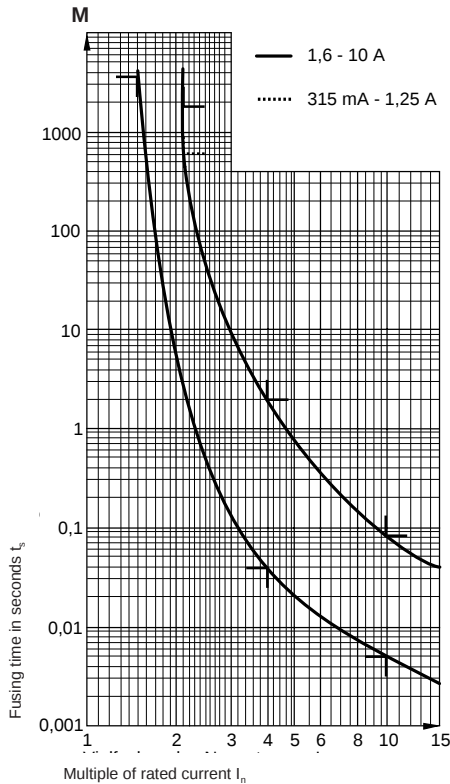
* Not addressed in the standards

For pigtail fuses packaged loose: reference .PT after part number (e.g. 0001.1001.PT)

For pigtail fuses on 1,000-piece tape and reel: reference .TR after part number (e.g. 0001.1001.TR)

FSM 5 x 20mm Medium Time Lag Fuses – Low and Medium Breaking Capacity

Built according to DIN 41571, data sheet 2 (June 1984)



Glass tube



0034.2511 – .2517

Ceramic tube
Sand filled



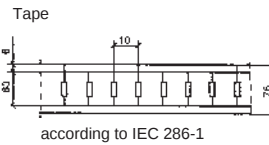
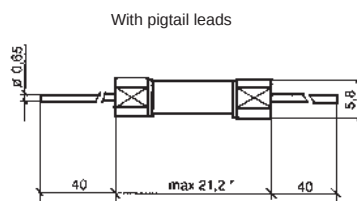
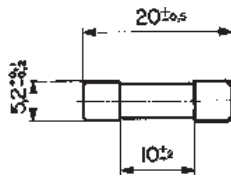
0034.2518 – .2527



Fuse with pigtail leads

Time Current Characteristics

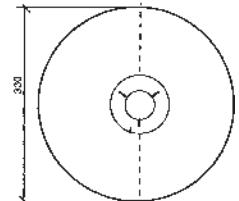
n • I _n rated current I _n	1.5 • I _n		2.1 • I _n		4 • I _n		10 • I _n	
	min.	max.	min.	max.	min.	max.	min.	max.
315mA – 1.25A	60 min.	10 min.	40 ms	2 s	5 ms	90 ms		
1.6A – 10A	60 min.	30 min.	40 ms	2 s	5 ms	90 ms		



according to IEC 286-1



Spool



Order Numbers	Rated current / rated voltage	Breaking capacity	Voltage drop at I _n		Power dissipation at 1.5 • I _n		Operating I ² t
			max. DIN 41571 mV	typical Schurter mV	max. Schurter Watts	typical Schurter Watts	
Series FSM	mA / A / V~	C, E, D p.f. 1 G p.f. 0.7-0.8 A~					A ² s
0034.2511	315 mA / 250V	80A / 125V- C 80A / 250V~ C	250	200	0.4	0.2	0.33
0034.2512	400 mA / 250V		230	160	0.4	0.2	0.41
0034.2513	500 mA / 250V		210	140	0.4	0.2	1.5
0034.2514	630 mA / 250V		190	140	0.4	0.2	12
0034.2515	800 mA / 250V		170	130	0.4	0.2	11
0034.2516	1 A / 250V		160	70	0.4	0.2	15
0034.2517	1.25 A / 250V	1000A / E 125V- E	160	70	0.6	0.2	23
0034.2518	1.6 A / 250V		160	150	0.8	0.6	3.5
0034.2519	2 A / 250V		160	140	0.9	0.7	5.0
0034.2520	2.5 A / 250V		160	130	1.0	0.8	13
0034.2521	3.15 A / 250V		160	120	1.2	1.0	21
0034.2522	4 A / 250V		160	120	1.5	1.3	37
0034.2523	5 A / 250V	300A / 125V- D 300A / 250V~ D	150	100	1.7	1.4	95
0034.2524	6.3 A / 250V		140	100	2.0	1.7	165
0034.2525	8 A / 250V		140	90	2.6	2.3	240
0034.2526	10 A / 250V		120	80	2.8	2.3	455
0034.2527	10 A* / 250V	1500A / G 250V~ G	120	80	2.8	2.5	255

*Not mentioned in DIN 41571. Check temperature rise if fuses are used in closed type fuseholders.

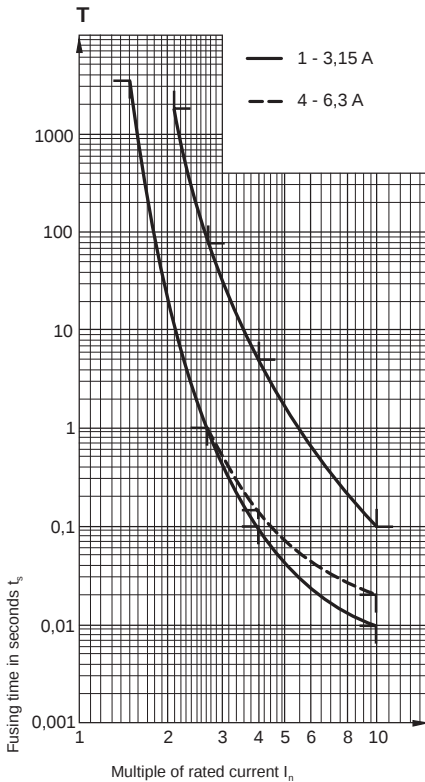
For pigtail fuses packaged loose: reference .PT after part number (e.g. 0034.2511.PT)

For pigtail fuses on 1,000-piece tape and reel: reference .TR after part number (e.g. 0034.2511.TR)

SPT 5 x 20mm Time Lag Fuses – High Breaking Capacity



Built according to IEC 127-2/5, EN 60127, SEV 1064, and SEMKO 104-1976. Recommended if the short circuit current through the fuse-link is more than 35A or $10 \times I_n$, whichever is greater (CENELEC Jan 1, 1993).



Approvals:

UL	recognition	500mA-16A*	File #E41599
CSA	acceptance	500mA-16A*	File #LR51172
VDE	approval	1A-6.3A	File #75036
SEMKO	approval	1A-6.3A	File numbers on request
SEV	approval	1A-6.3A	

* fuses with pigtail leads approved up to 8A (factory assembled only)

Ceramic or glass tube
Sand filled



NEW



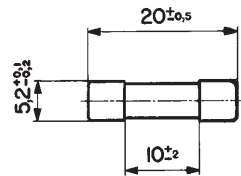
New version with gold plated caps for direct pcb mounting

cUL	recognition	1A-16A/250V**	pending
VDE	approval	1A-6.3A/250V**	pending

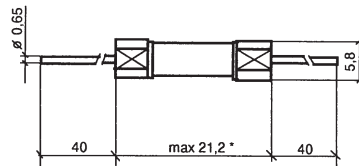
**Contact Schurter for part numbers

Time Current Characteristics

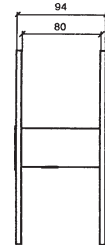
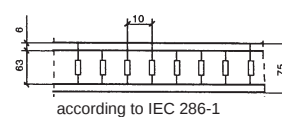
rated current I_n		$n \cdot I_n$		$1.5 \cdot I_n$		$2.1 \cdot I_n$		$2.75 \cdot I_n$		$4 \cdot I_n$		$10 \cdot I_n$	
		min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.
SCHURTER	500mA – 800mA	60 min.	30 min.	1 s	80 s	95 ms	5 s	10 ms	100 ms				
IEC	1A – 3.15A												
IEC	4A – 6.3A	60 min.	30 min.	1 s	80 s	150 ms	5 s	20 ms	100 ms				
SCHURTER	8A – 16A												



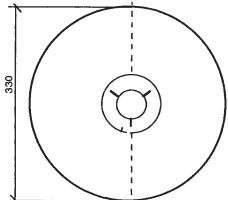
With pigtail leads



Tape



Spool



Order Numbers	Rated current / rated voltage	Breaking capacity	Voltage drop at I_n		Power dissipation at $1.5 \cdot I_n$			Pre-arcing I^2t at $10 \cdot I_n$	Approvals				
			max. IEC 127 mV	typical Schurter mV	max. IEC 127 Watts	max. Schurter Watts	typical Schurter Watts		UL	CSA	VDE	SEMKO	SEV
0001.2501	500 mA* / 250V	UL: 10,000A / 125V, p.f. 0.7-0.8 IEC: 1,500A / 250V, p.f. 0.7-0.8	250	360	2.5	0.7	0.5	0.50	•	•			
0001.2502	630 mA* / 250V			330			0.5	1.55	•	•			
0001.2503	800 mA* / 250V			260			0.5	2.30	•	•			
0001.2504	1 A / 250V			180			0.5	1.10	•	•	•	•	•
0001.2505	1.25 A / 250V			150			0.5	1.86	•	•	•	•	•
0001.2506	1.6 A / 250V			130			0.5	4.35	•	•	•	•	•
0001.2507	2 A / 250V			120			0.6	9.20	•	•	•	•	•
0001.2508	2.5 A / 250V			100			0.6	11.7	•	•	•	•	•
0001.2509	3.15 A / 250V			100			0.8	33.7	•	•	•	•	•
0001.2510	4 A / 250V			90			0.9	62.4	•	•	•	•	•
0001.2511	5 A / 250V			90			1.2	97.5	•	•	•	•	•
0001.2512	6.3 A / 250V			70			1.2	171	•	•	•	•	•
0001.2513	8 A* / 250V	UL: 1,000A / 250V, p.f. 1 UL: 1,000A / 125V & 500A/250V, p.f. 1	70	70	1.9	2.8	1.3	268	•	•			
0001.2514	10 A* / 250V			70			2.1	400	•	•			
0001.2515	12.5 A* / 250V			70			3.1	563	•	•			
0001.2516	16 A* / 250V			70			4.0	1272	•	•			

*Not addressed in the standards

For pigtail fuses packaged loose: reference .PT after part number (e.g. 0001.2501.PT)

For pigtail fuses on 1,000-piece tape and reel: reference .TR after part number (e.g. 0001.2501.TR)