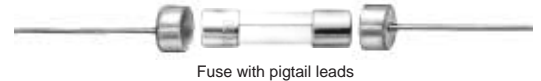
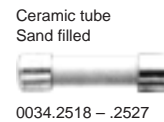
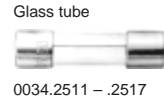
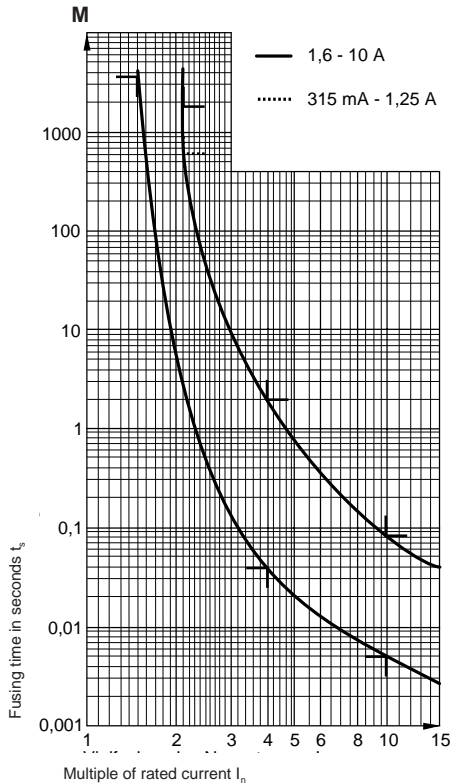


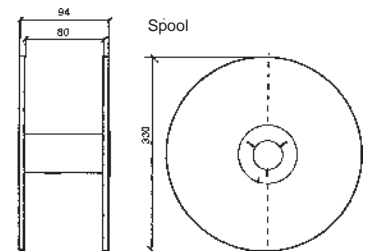
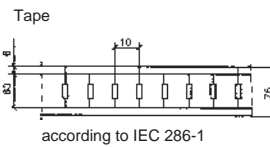
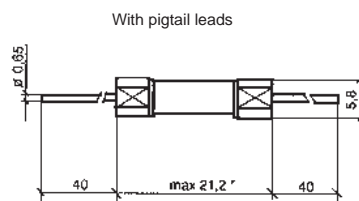
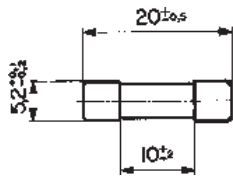
# FSM 5 x 20mm Medium Time Lag Fuses – Low and Medium Breaking Capacity

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



Time Current Characteristics

n • I <sub>n</sub> rated current I <sub>n</sub>	1.5 • I <sub>n</sub>		2.1 • I <sub>n</sub>		4 • I <sub>n</sub>		10 • I <sub>n</sub>	
	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		



Order Numbers Series FSM	Rated current / rated voltage mA / A / V~	Breaking capacity C, E, D p.f. 1 G p.f. 0.7-0.8 A~	Voltage drop at I <sub>n</sub>		Power dissipation at 1.5 • I <sub>n</sub>		Operating I <sup>2</sup> t A <sup>2</sup> s	
			max. DIN 41571 mV	typical Schurter mV	max. Schurter Watts	typical Schurter Watts		
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		160	70	0.6	0.2	23	
0034.2518	1.6 A / 250V		1000A / E 125V- E	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	1000A / E 250V~ E	160	120	1.2	1.0	21	
0034.2522	4 A / 250V	160	120	1.5	1.3	37		
0034.2523	5 A / 250V	150	100	1.7	1.4	95		
0034.2524	6.3 A / 250V	300A / 125V- D 300A / 250V~ D	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	

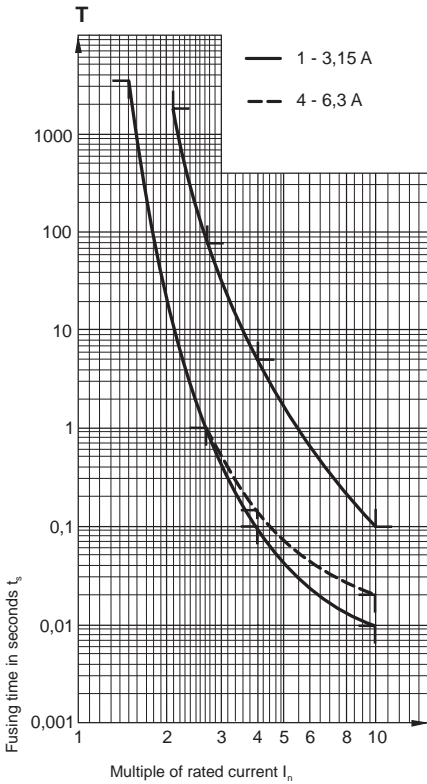
\*Not mentioned in DIN 41571. Check temperature rise if fuses are used in closed type fuseholders.

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



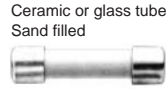
Built according to IEC 127-2/5, EN 60127, SEV 1064, and SEMKO 104-1976. Recommended if the short circuit current through the fuse-link is more than 35A or  $10 \times I_n$ , whichever is greater (CENELEC Jan 1, 1993).



### 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)



**NEW**



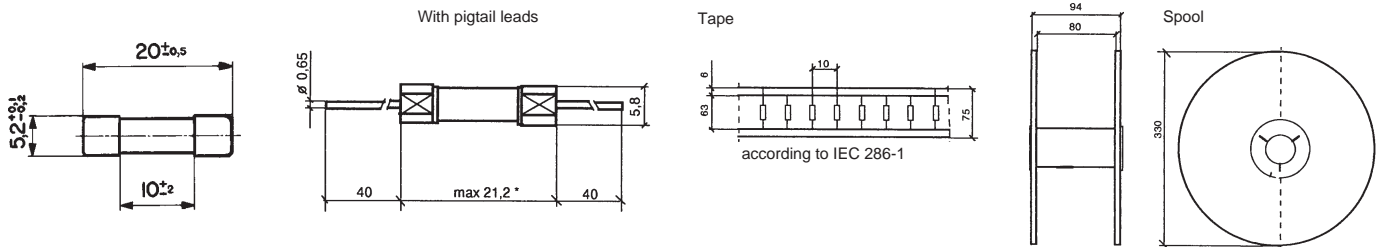
New version with gold plated caps for direct pcb mounting

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

\*\*Contact Schurter for part numbers

### Time Current Characteristics

rated current I <sub>n</sub>	n • I <sub>n</sub>	1.5 • I <sub>n</sub>		2.1 • I <sub>n</sub>		2.75 • I <sub>n</sub>		4 • I <sub>n</sub>		10 • I <sub>n</sub>	
		min.	max.	min.	max.	min.	max.	min.	max.	min.	max.
SCHURTER IEC	500mA – 800mA 1A – 3.15A	60 min.	30 min.	1 s	80 s	95 ms	5 s	10 ms	100 ms		
IEC SCHURTER	4A – 6.3A 8A – 16A	60 min.	30 min.	1 s	80 s	150 ms	5 s	20 ms	100 ms		



Order Numbers	Rated current / rated voltage mA / A / V~	Breaking capacity A~ ac	Voltage drop at I <sub>n</sub>		Power dissipation at 1.5 • I <sub>n</sub>			Pre-arcing I <sup>2</sup> t at 10 • I <sub>n</sub> A <sup>2</sup> s	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		360			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	2.5	0.7	0.5	1.10	•	•				
0001.2505	1.25 A / 250V			250	2.5	0.7	0.5	1.86	•	•				
0001.2506	1.6 A / 250V			200	2.5	0.7	0.5	4.35	•	•				
0001.2507	2 A / 250V			190	2.5	0.8	0.6	9.20	•	•				
0001.2508	2.5 A / 250V			180	2.5	0.9	0.6	11.7	•	•				
0001.2509	3.15 A / 250V			140	4.0	1.1	0.8	33.7	•	•				
0001.2510	4 A / 250V			100	4.0	1.2	0.9	62.4	•	•				
0001.2511	5 A / 250V		100	4.0	1.5	1.2	97.5	•	•					
0001.2512	6.3 A / 250V		100	4.0	1.7	1.2	171	•	•					
0001.2513	8 A* / 250V	UL:1,000A / 250V, p.f. 1		70		1.9	1.3	268	•	•				
0001.2514	10 A* / 250V			70		2.8	2.1	400	•	•				
0001.2515	12.5 A* / 250V			70			3.1	563	•	•				
0001.2516	16 A* / 250V	UL:1,000A / 125V & 500A/250V, p.f. 1		70			4.0	1272	•	•				

\*Not addressed in the standards

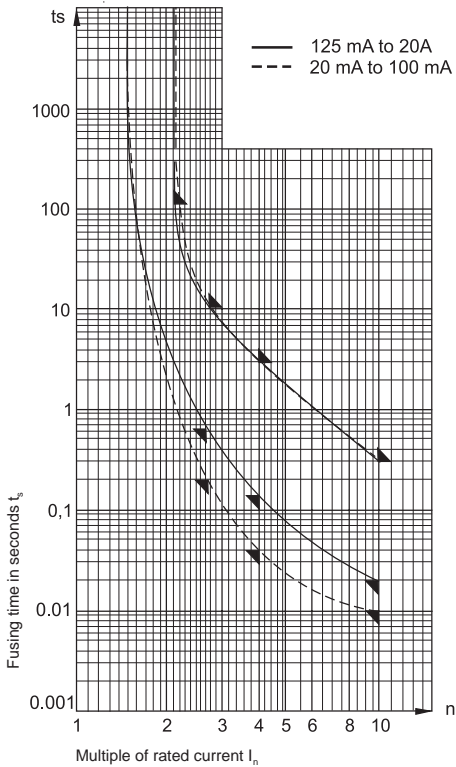
For pigtail fuses packaged loose: reference .PT after part number (e.g. 0001.2501.PT)

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

## FST 5 x 20mm Time Lag Fuses – Low Breaking Capacity



Built according to IEC 127-2/3, EN 60127, SEV 1064, DIN/VDE 0820 part 1, DIN 41662, BS 4265, and SEMKO 104-1976, with support by UL 198G. Series SP & SPT 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	32mA-16A*	File #E41599
CSA	acceptance	32mA-16A*	File #LR51172
VDE	approval	32mA-6.3A	File #50910
SEMKO	approval	32mA-6.3A	File #51550
SEV	approval	32mA-6.3A	} File numbers on request
BSI	license	125mA-6.3A	
CB	certification	32-40mA, 125mA-6.3A	
BEAB	approval	32-40mA, 125mA-6.3A	

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



**NEW**

New version with gold plated caps for direct pcb mounting

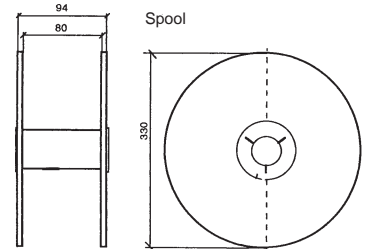
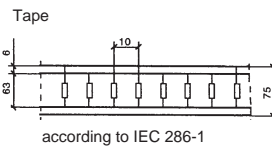
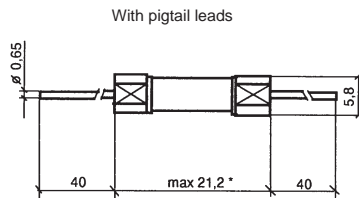
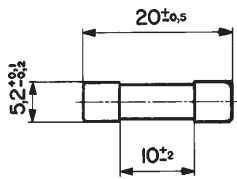
cUL recognition 1A-16A/250V\*\* pending  
VDE approval 1A-16A/250V\*\* pending

\*\* Contact Schurter for part numbers

### Time Current Characteristics

rated current $I_n$	$n \cdot I_n$		$2.75 \cdot I_n$		$4 \cdot I_n$		$10 \cdot I_n$	
	min.	max.	min.	max.	min.	max.	min.	max.
20mA – 100mA	60 min.	2 min.*	200 ms*	10 s*	40 ms	3 s	10 ms	300 ms
125mA – 20A	60 min.	2 min.	600 ms	10 s	150 ms	3 s	20 ms	300 ms

\* These values are not guaranteed at 20mA



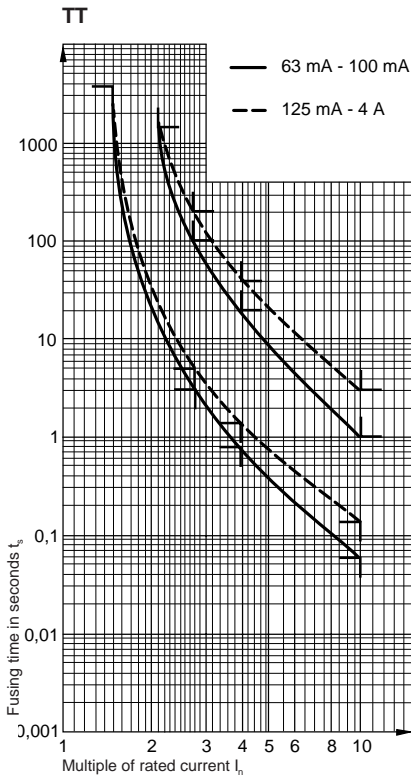
Order Numbers	Rated current / rated voltage	Breaking capacity	Voltage drop at $I_n$		Power dissipation at $1.5 \cdot I_n$			Pre-arcing $I^2 t$ at $10 \cdot I_n$	Approvals										
			max. IEC 127 mV	typical Schurter mV	max. IEC 127 Watts	max. Schurter Watts	typical Schurter Watts		A <sup>2</sup> s	UL	CSA	VDE	SEMKO	SEV	BSI	CB	BEAB		
Series FST	mA / A / V~	A~																	
0034.3101	20 mA* / 250V	35A / 250 V / 50 Hz / p.f. 1		2700			0.1	0.0012											
0034.3102	32 mA / 250V			5000	3000	1.6		0.2	0.0019										
0034.3103	40 mA / 250V			4000	2100	1.6		0.2	0.0027										
0034.3104	50 mA / 250V			3500	950	1.6		0.125	0.0363										
0034.3105	63 mA / 250V			3000	1300	1.6		0.2	0.0401										
0034.3106	80 mA / 250V			3000	1100	1.6		0.3	0.0570										
0034.3107	100 mA / 250V			2500	1000	1.6		0.155	0.107										
0034.3108	125 mA / 250V			2000	565	1.6		0.2	0.064										
0034.3109	160 mA / 250V			1900	415	1.6		0.185	0.230										
0034.3110	200 mA / 250V			1500	270	1.6		0.2	0.256										
0034.3111	250 mA / 250V			1300	210	1.6		0.2	0.238										
0034.3112	315 mA / 250V			1100	170	1.6		0.2	0.544										
0034.3113	400 mA / 250V			1000	150	1.6		0.2	0.768										
0034.3114	500 mA / 250V			900	160	1.6		0.2	3.0										
0034.3115	630 mA / 250V			300	160	1.6		0.3	4.35										
0034.3116	800 mA / 250V		250	120	1.6		0.3	3.85											
0034.3117	1 A / 250V		150	60	1.6		0.2	3.30											
0034.3118	1.25 A / 250V		150	60	1.6		0.3	5.50											
0034.3165*	1.4 A* / 250V			60			0.3	7.45											
0034.3119	1.6 A / 250V		150	60	1.6	0.5	0.3	10.5											
0034.3120	2 A / 250V		150	60	1.6	0.6	0.3	16											
0034.3121	2.5 A / 250V		120	60	1.6	0.7	0.4	21.9											
0034.3122	3.15 A / 250V		100	60	1.6	0.8	0.5	47											
0034.3123	4 A / 250V		100	60	1.6	1.1	0.8	68.3											
0034.3124	5 A / 250V		100	60	1.6	1.2	0.9	102											
0034.3125	6.3 A / 250V		100	60	1.6	1.3	1.0	190											
0034.3126	8 A* / 250V	10 • $I_n$ 250V / 50 Hz / p.f. 1		60		1.6	1.3	275											
0034.3127	10 A* / 250V			60		1.8	1.3	520											
0034.3128	12.5 A* / 250V			60			2.5	750											
0034.3129	16 A* / 250V			60			3.3	1638											
0034.3130	20 A* / 250V			60			4.2	3057											

\*Not addressed in the standards; 1.4A SEMKO approved only.

For pigtail fuses packaged loose: reference .PT after part number (e.g. 0034.3101.PT)

For pigtail fuses on 1,000-piece tape and reel: reference .TR after part number (e.g. 0034.3101.TR)

# FTT 5 x 20mm Super Time Lag Fuses – Low Breaking Capacity



**Approvals:**

UL recognition 63mA-4A/250V File #E41599



Fuse with pigtail leads (factory assembled only)

**NEW**



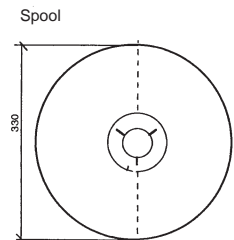
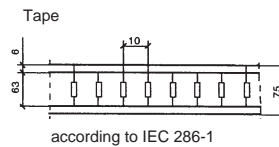
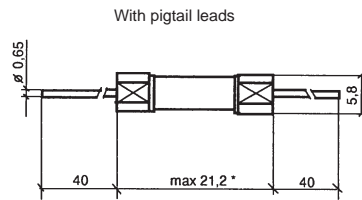
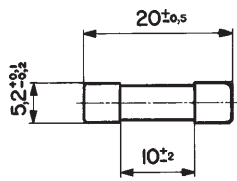
New version with gold plated caps for direct pcb mounting

cUL recognition 50mA-4A/250V\*\* pending

\*\*Contact Schurter for part numbers

**Time Current Characteristics**

n • I <sub>n</sub> rated current I <sub>n</sub>	1.5 • I <sub>n</sub>		2.1 • I <sub>n</sub>		2.75 • I <sub>n</sub>		4 • I <sub>n</sub>		10 • I <sub>n</sub>	
	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.
63mA – 100mA	60 min.	30 min.	3 s	100 s	800 ms	20 s	0.06 s	1 s		
125mA – 4A	60 min.	30 min.	5 s	200 s	1.5 s	40 s	0.15 s	3 s		



Order Numbers Series FTT	Rated current / rated voltage mA / A / V~	Breaking capacity A~	Voltage drop at I <sub>n</sub>		Power dissipation at 1.5 • I <sub>n</sub>		Operating I <sup>2</sup> t A <sup>2</sup> s
			max. Schurter mV	typical Schurter mV	max. Schurter Watts	typical Schurter Watts	
0034.5001	63 mA / 250V	35A / 250 V / 50 Hz / p.f. 1	5000	1000	1.6	0.22	2.4
0034.5002	80 mA / 250V		4500	980	1.6	0.27	2.5
0034.5003	100 mA / 250V		4000	870	1.6	0.30	2.8
0034.5004	125 mA / 250V		3000	500	1.6	0.27	2.2
0034.5035	160 mA / 250V		2000	450	1.6	0.30	3.7
0034.5036	200 mA / 250V		1500	400	1.6	0.33	3.7
0034.5037	250 mA / 250V		1200	330	1.6	0.35	3.7
0034.5038	315 mA / 250V		1000	300	1.6	0.36	4.2
0034.5039	400 mA / 250V		1200	225	1.6	0.40	5.6
0034.5040	500 mA / 250V		800	250	1.6	0.44	8.0
0034.5041	630 mA / 250V		700	200	1.6	0.47	9.0
0034.5042	800 mA / 250V		500	160	1.6	0.54	18
0034.5043	1 A / 250V		250	150	1.6	0.54	20
0034.5044	1.25 A / 250V		200	130	1.6	0.57	31
0034.5045	1.6 A / 250V		200	100	1.6	0.65	71
0034.5046	2 A / 250V		200	100	1.6	0.80	113
0034.5047	2.5 A / 250V		150	90	1.6	0.85	230
0034.5048	3.15 A / 250V		100	90	1.6	1.0	405
0034.5049	4 A / 250V		100	80	1.6	1.15	476

For pigtail fuses packaged loose: reference .PT after part number (e.g. 0034.5001.PT)

For pigtail fuses on 1,000-piece tape and reel: reference .TR after part number (e.g. 0034.5001.TR)

# FSD 5 x 20mm Time Delay Fuses

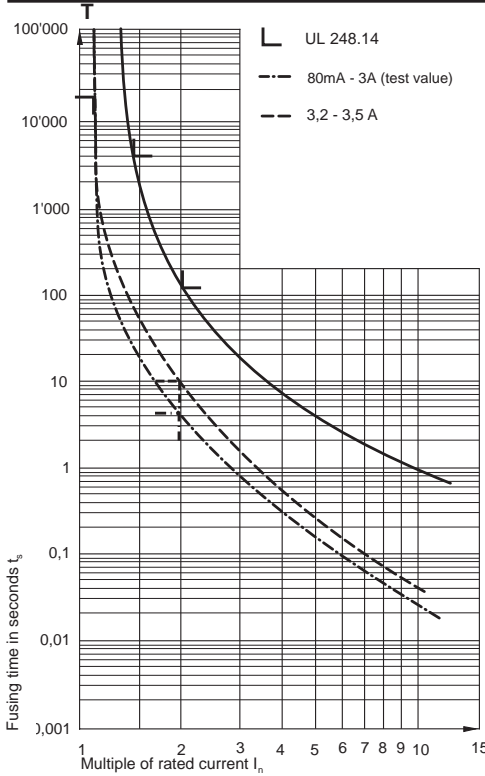


Built according to UL 248.14 (formerly 198G) and CSA C22.2 (formerly 59.2-M). Recommended over 1/4 x 1 1/4" fuses for domestic use in UL/CSA approved fuseholders and/or power entry modules where space is a limiting factor.

**Approvals:**

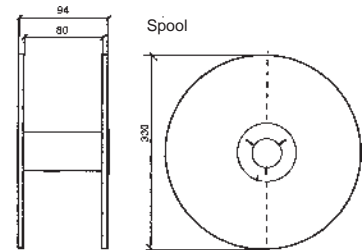
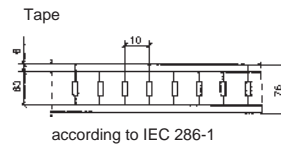
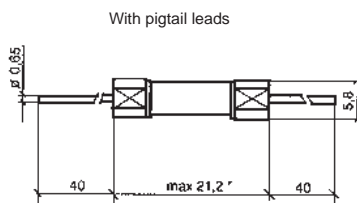
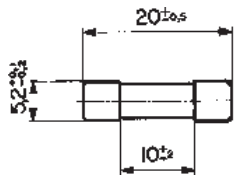
UL listing 100mA-2A File #E41599  
 CSA certification 100mA-2A File #LR51172

**Replaces Series FSP**



Time Current Characteristics

rated current I <sub>n</sub>	n • I <sub>n</sub>		2 • I <sub>n</sub>	
	1.1 • I <sub>n</sub>	1.35 • I <sub>n</sub>	min.	max.
100mA – 2A	min.	max.	min.	max.
	4 h	1 h	5 s	2 min.



Order Numbers	Rated current / rated voltage	Breaking capacity	Voltage drop at I <sub>n</sub>	Power dissipation at 1.1 • I <sub>n</sub>	Operating I <sup>2</sup> t	Approvals		
						UL	CSA	
Series FSD	mA / A / V	A~	max. mV	max. Watts	A <sup>2</sup> s			
0034.3972	100 mA / 250V	10,000A / 125V p.f. 0.7 – 0.8	1550	0.16	3.5	•	•	
0034.3973	125 mA / 250V		1240	0.15	3.9	•	•	
0034.3974	150 mA / 250V		1240	0.19	5.0	•	•	
0034.3975	175 mA / 250V		1000	0.18	4.1	•	•	
0034.3976	187 mA / 250V		910	0.17	5.7	•	•	
0034.3977	200 mA / 250V		890	0.18	5.3	•	•	
0034.3978	250 mA / 250V		770	0.19	5.1	•	•	
0034.3979	300 mA / 250V		700	0.21	5.2	•	•	
0034.3980	375 mA / 250V		510	0.19	5.8	•	•	
0034.3981	400 mA / 250V		35A / 250V p.f. 0.7 – 0.8	540	0.21	5.2	•	•
0034.3982	500 mA / 250V	470		0.23	5.4	•	•	
0034.3983	600 mA / 250V	380		0.23	7.0	•	•	
0034.3984	700 mA / 250V	360		0.25	8.3	•	•	
0034.3985	750 mA / 250V	270		0.21	9.3	•	•	
0034.3986	800 mA / 250V	330		0.26	9.4	•	•	
0034.3987	1 A / 250V	270		0.27	11	•	•	
0034.3988	1.2 A / 250V	10,000A / 125V p.f. 0.7 – 0.8		240	0.80	37	•	•
0034.3989	1.25 A / 250V			240	0.31	41	•	•
0034.3990	1.5 A / 250V			210	0.32	45	•	•
0034.3991	1.6 A / 250V		200	0.32	57	•	•	
0034.3992	1.8 A / 250V		100A / 250V	190	0.34	52	•	•
0034.3993	2 A / 250V		180	0.37	62	•	•	

For pigtail fuses packaged loose: reference .PT after part number (e.g. 0034.3972.PT)

For pigtail fuses on 1,000-piece tape and reel: reference .TR after part number (e.g. 0034.3972.TR)