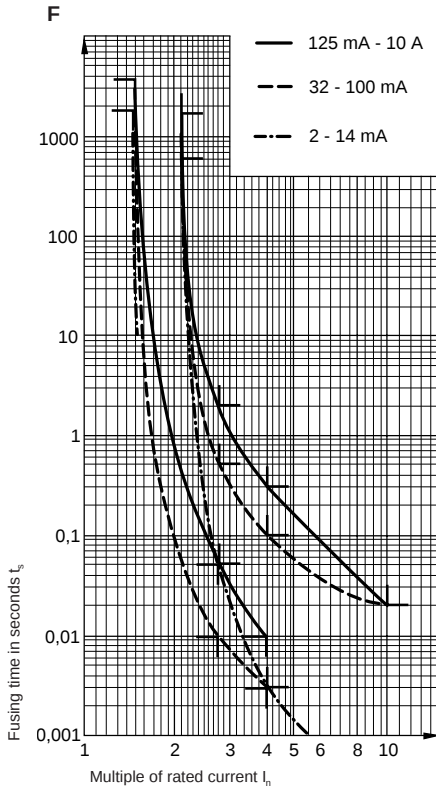


FSF 5 x 20mm Quick-acting Fuses – Low Breaking Capacity



Built according to IEC 127-2/2, EN 60127, ASE 1064, DIN/VDE 0820 part 1, DIN 41661, BS 4265, and SEMKO 104-1976. 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-10A*	File #E41599
CSA	acceptance	32mA-10A*	File #LR51172
VDE	approval	32mA-6.3A	File #50911
SEMKO	approval	32mA-6.3A	File numbers on request
SEV	approval	32mA-6.3A	
BEAB	approval	32mA-6.3A	

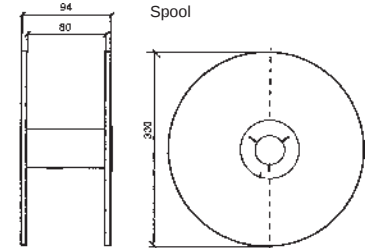
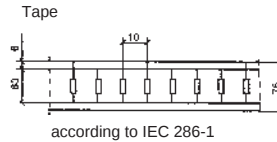
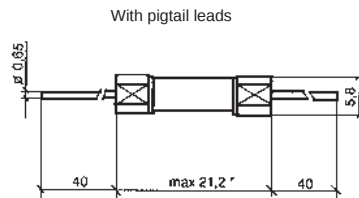
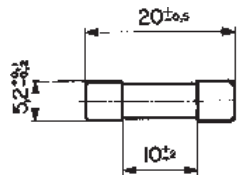
* fuses with pigtail leads approved up to 8A



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.	min.	max.	max.
2mA – 14mA	~ 30 min.	~ 10min.*			= 10 min. ~ 50 ms		~ 3 ms		~ 0.3 ms
32mA – 100mA	60 min.	30 min.	10 ms	500 ms	3 ms	100 ms	20 ms		
125mA – 10A	60 min.	30 min.	50 ms	2 s	10 ms	300 ms	20 ms		

* This value is not guaranteed for DC



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	BEAB
Series FSF	mA / A / V~	A~					A ² s						
0034.1501	2 mA* / 250V	35A / 250 V / 50 Hz / p.f. 1	10000	1600		0.01	0.000009						
0034.1502	4 mA* / 250V			540		0.01	0.00001						
0034.1503	7 mA* / 250V			640		0.01	0.00002						
0034.1504	10 mA* / 250V			500		0.01	0.00002						
0034.1505	14 mA* / 250V			380		0.01	0.00003						
0034.1527	32 mA / 250V			9300	1.6	0.7	0.00006						
0034.1528	40 mA / 250V			7400	1.6	0.7	0.00013						
0034.1529	50 mA / 250V			6400	1.6	0.7	0.00024						
0034.1530	63 mA / 250V			5000	1.6	0.3	0.00054						
0034.1531	80 mA / 250V			4000	1.6	0.3	0.0016						
0034.1506	100 mA / 250V			3500	1.6	0.4	0.0023						
0034.1507	125 mA / 250V			2000	1.6	0.4	0.0067						
0034.1508	160 mA / 250V			2000	1.6	0.5	0.018						
0034.1509	200 mA / 250V			1700	1.6	0.5	0.03						
0034.1510	250 mA / 250V			1400	1.6	0.2	0.021						
0034.1511	315 mA / 250V			1300	1.6	0.2	0.044						
0034.1512	400 mA / 250V			1200	1.6	0.2	0.088						
0034.1513	500 mA / 250V			1000	1.6	0.2	0.15						
0034.1514	630 mA / 250V			650	1.6	0.3	0.37						
0034.1515	800 mA / 250V			240	1.6	0.3	5.3						
0034.1516	1 A / 250V			200	1.6	0.3	5.1						
0034.1517	1.25 A / 250V			200	1.6	0.4	5.6						
0034.1518	1.6 A / 250V			190	1.6	0.5	6.5						
0034.1519	2 A / 250V			170	1.6	0.6	7.6						
0034.1520	2.5 A / 250V			170	1.6	0.8	9.8						
0034.1521	3.15 A / 250V			150	2.5	0.6	20						
0034.1522	4 A / 250V			130	2.5	1.0	29						
0034.1523	5 A / 250V	10 • I _n 250V / 50 Hz / p.f. 1	130	80	2.5	1.3	38						
0034.1524	6.3 A / 250V			80	2.5	2.0	62						
0034.1525	8 A* / 250V			80		2.3	103						
0034.1526	10 A* / 250V			70		2.5	184						

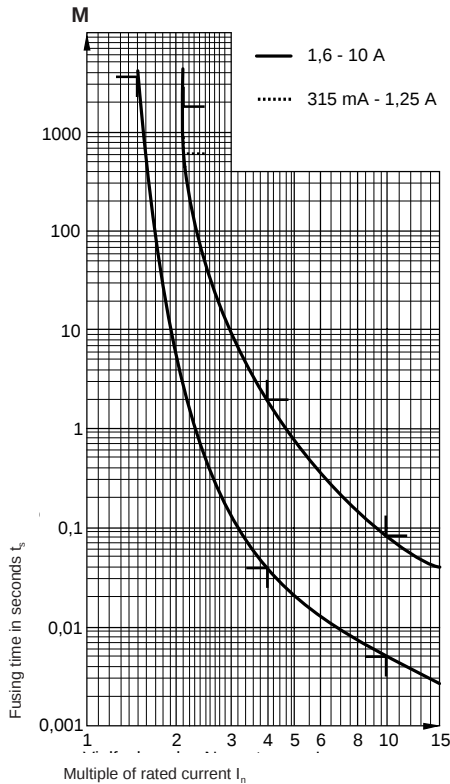
*Not addressed in the standards

For pigtail fuses packaged loose: reference .PT after part number (e.g. 0034.1501.PT)

For pigtail fuses on 1,000-piece tape and reel: reference .TR after part number (e.g. 0034.1501.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



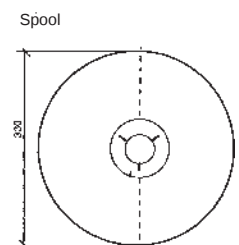
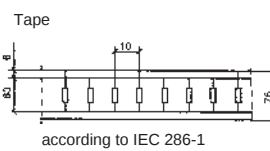
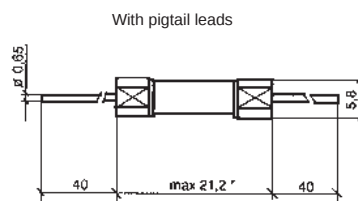
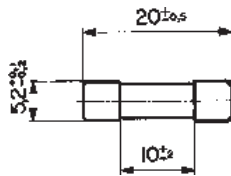
0034.2518 – .2527



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		



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.

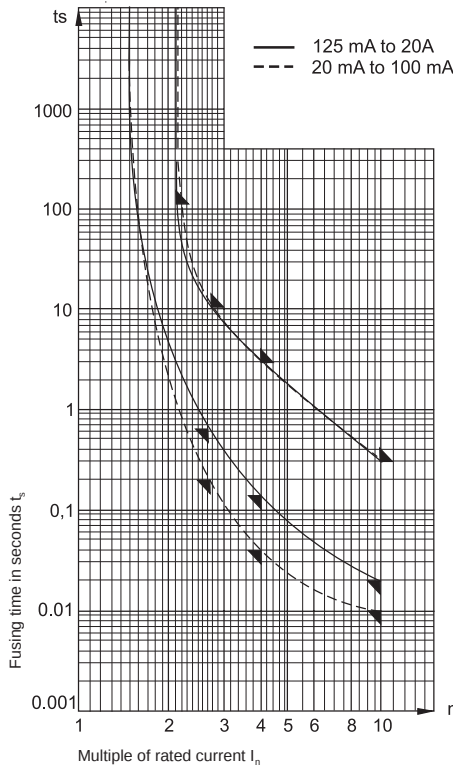
For pigtail fuses packaged loose: reference .PT after part number (e.g. 0034.2511.PT)

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

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	
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

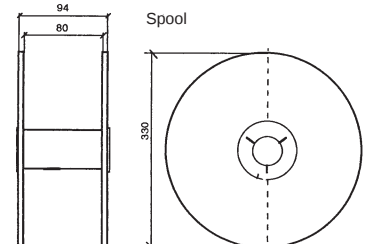
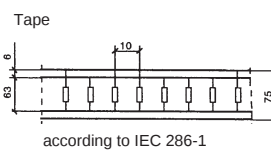
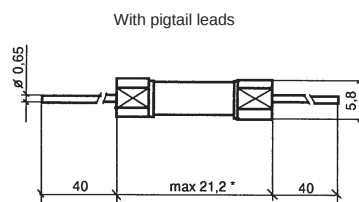
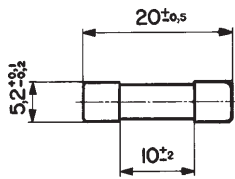
cUL	recognition	1A-16A/250V**	pending
VDE	approval	1A-16A/250V**	pending

**Contact Schurter for part numbers

Time Current Characteristics

n • In rated current In	1.5 • In	2.1 • In	2.75 • In		4 • In		10 • In	
	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



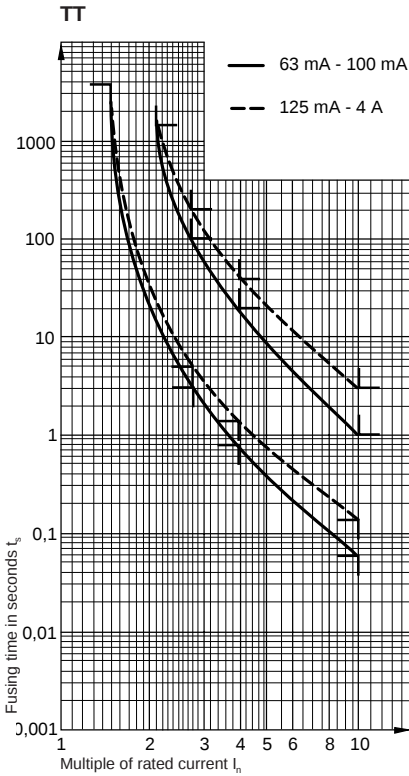
Order Numbers	Rated current / rated voltage	Breaking capacity	Voltage drop at I_n		Power dissipation at $1.5 \cdot I_n$			Pre-arcing $I^2 t$ at $10 \cdot I_n$	Approvals								
Series FST	mA / A / V~	A~	max. IEC 127 mV	typical Schurter mV	max. IEC 127 Watts	max. Schurter Watts	typical Schurter Watts	A ² s	UL	CSA	VDE	SEMKO	SEV	BSI	CB	BEAB	
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	600 mA / 250V		300	160	1.6		0.3	4.35	•	•	•	•	•				
0034.3116	830 mA / 250V		250	120	1.6		0.3	3.85	•	•	•	•	•				
0034.3117	1 A / 250V		150	60	1.6	0.4	0.2	3.30	•	•	•	•	•				
0034.3118	1.25 A / 250V	150	60	1.6	0.5	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		60			1.6	1.3	•	•	•	•	•					
0034.3127	10 A* / 250V		60			1.8	1.3	•	•	•	•	•					
0034.3128	12.5 A* / 250V		60				2.5	•	•								
0034.3129	16 A* / 250V		60				3.3	•	•								
0034.3130	20 A* / 250V		60				4.2										

*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



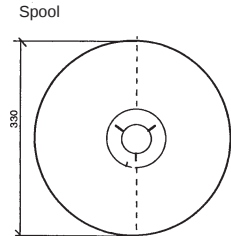
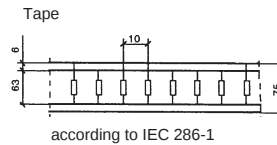
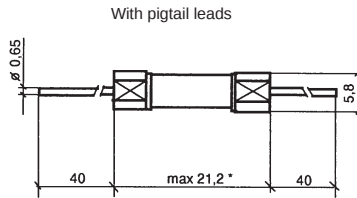
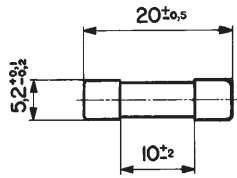
New version with gold plated caps for direct pcb mounting

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

**Contact Schurter for part numbers

Time Current Characteristics

n • I _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.	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		

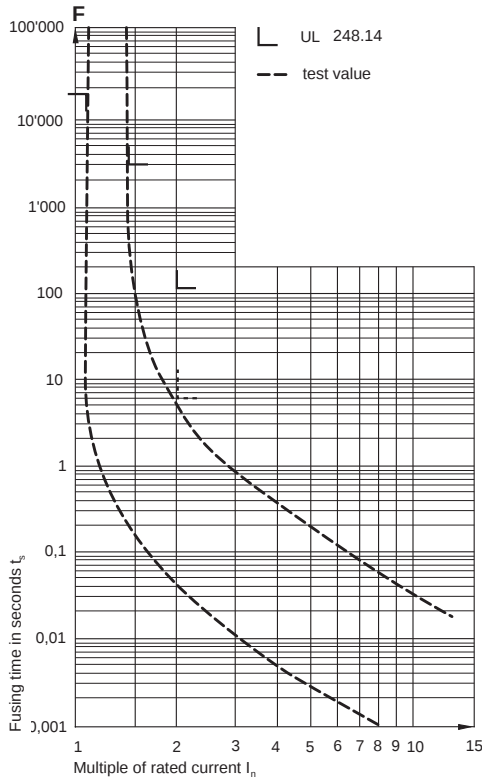


Order Numbers	Rated current / rated voltage	Breaking capacity	Voltage drop at I _n		Power dissipation at 1.5 • I _n		Operating I ² t
			max. Schurter mV	typical Schurter mV	max. Schurter Watts	typical Schurter Watts	
Series FTT	mA / A / V~	A~					A ² s
0034.5001	63 mA / 250V	35A / 250 V / 50 Hz / p.f. 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)

FSQ 5 x 20mm Quick-acting Fuses



Built according to UL 248.14 and CSA 22.2 (recommended over $\frac{1}{4} \times 1\frac{1}{4}$ " fuses for domestic use in UL/CSA approved fuseholders and/or power entry modules where space is a limiting factor).

Approvals:

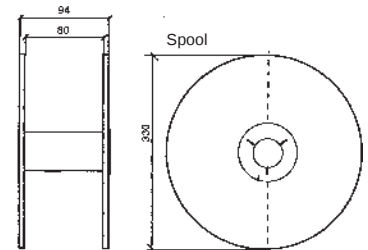
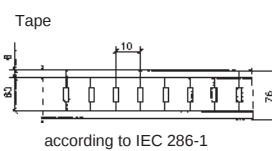
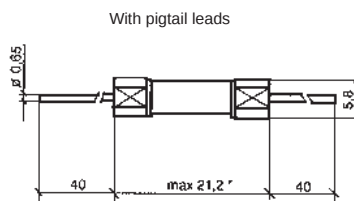
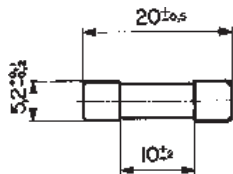
UL	listing	400mA-3.5A	File #E41599
CSA	certification	400mA-3.5A	File #LR51172

Replaces Series FNB



Time Current Characteristics

$n \cdot I_n$	$1.1 \cdot I_n$	$1.35 \cdot I_n$	$2 \cdot I_n$
rated current I_n	min.	max.	max.
400mA – 3.5A	4 h	1 hr	2 min.

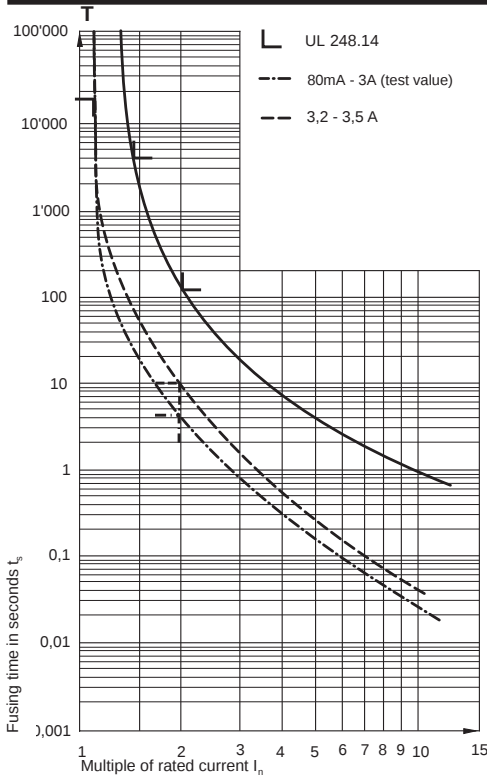


Order Numbers	Rated current / rated voltage	Breaking capacity	Voltage drop at I_n	Power dissipation at $1.1 \cdot I_n$	Operating $I^2 t$	Approvals	
Series FSQ	mA / A / V	A~	typical mV	max. Watts	A ² s	UL	CSA
0034.3951	400 mA / 250V	10,000A / 125V p.f. 0.7 – 0.8	170	0.1	0.1	•	•
0034.3952	500 mA / 250V		140	0.1	0.2	•	•
0034.3953	600 mA / 250V		150	0.1	0.26	•	•
0034.3954	700 mA / 250V		150	0.2	0.4	•	•
0034.3955	750 mA / 250V		150	0.2	0.6	•	•
0034.3956	800 mA / 250V	35A / 250V p.f. 0.7 – 0.8	140	0.2	0.7	•	•
0034.3957	1 A / 250V		120	0.2	1.2	•	•
0034.3958	1.2 A / 250V	10,000A / 125V p.f. 0.7 – 0.8	110	0.2	1.8	•	•
0034.3959	1.25 A / 250V		110	0.2	1.8	•	•
0034.3960	1.5 A / 250V		110	0.3	3	•	•
0034.3961	1.6 A / 250V		110	0.3	3.8	•	•
0034.3962	1.8 A / 250V		100	0.3	4.0	•	•
0034.3963	2 A / 250V		100	0.3	4.5	•	•
0034.3964	2.25 A / 250V		100	0.3	6.8	•	•
0034.3965	2.5 A / 250V		100	0.4	11	•	•
0034.3966	2.8 A / 250V		100	0.5	13	•	•
0034.3967	3 A / 250V		100	0.5	15	•	•
0034.3968	3.2 A / 250V	100A / 250V p.f. 0.7 – 0.8	100	0.5	20	•	•
0034.3969	3.5 A / 250V		90	0.5	26	•	•

For pigtail fuses packaged loose: reference .PT after part number (e.g. 0034.3951.PT)

For pigtail fuses on 1,000-piece tape and reel: reference .TR after part number (e.g. 0034.3951.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 $\frac{1}{4}$ x $1\frac{1}{4}$ " fuses for domestic use in UL/CSA approved fuseholders and/or power entry modules where space is a limiting factor.

Approvals:

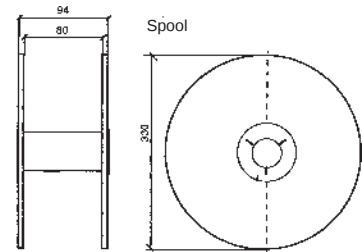
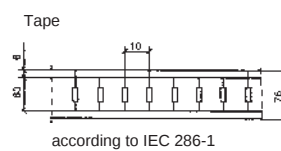
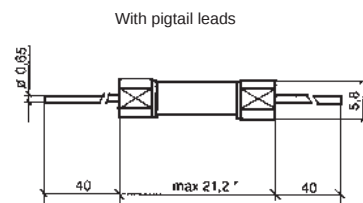
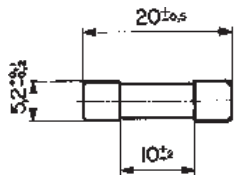
UL	listing	100mA-2A	File #E41599
CSA	certification	100mA-2A	File #LR51172

Replaces Series FSP



Time Current Characteristics

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



Order Numbers	Rated current / rated voltage	Breaking capacity	Voltage drop at I _n	Power dissipation at 1.1 • I _n	Operating I ² t	Approvals	
Series FSD	mA / A / V	A~	max. mV	max. Watts	A ² s	UL	CSA
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		540	0.21	5.2	•	•
0034.3982	500 mA / 250V	35A / 250V p.f. 0.7 – 0.8	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 p.f. 0.7 – 0.8	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)