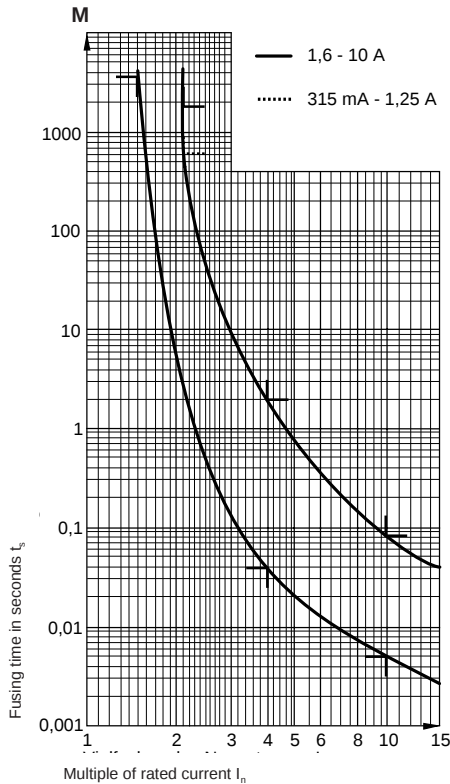


FSM 5 x 20mm Medium Time Lag Fuses – Low and Medium Breaking Capacity

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



Glass tube



0034.2511 – .2517

Ceramic tube
Sand filled



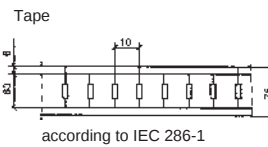
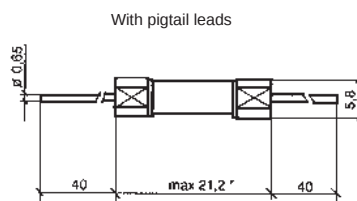
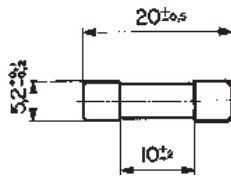
0034.2518 – .2527



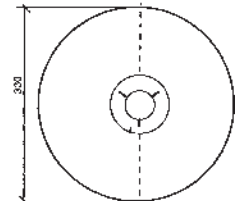
Fuse with pigtail leads

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		



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.

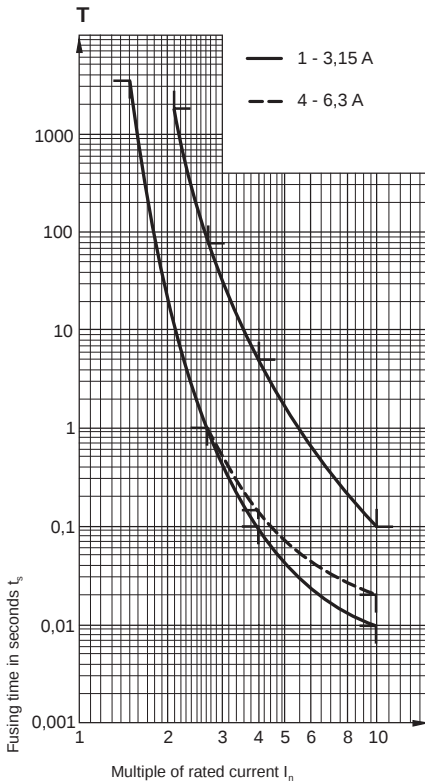
For pigtail fuses packaged loose: reference .PT after part number (e.g. 0034.2511.PT)

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



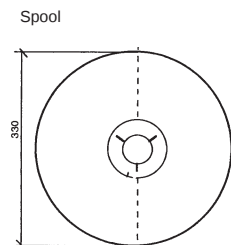
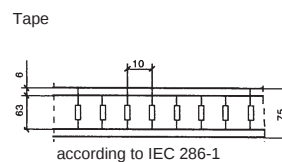
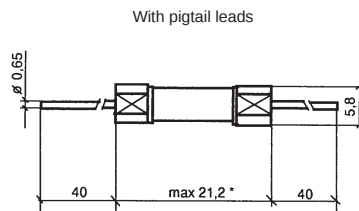
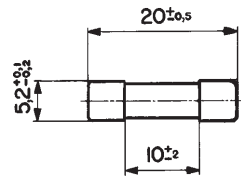
New version with gold plated caps for direct pcb mounting

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												



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

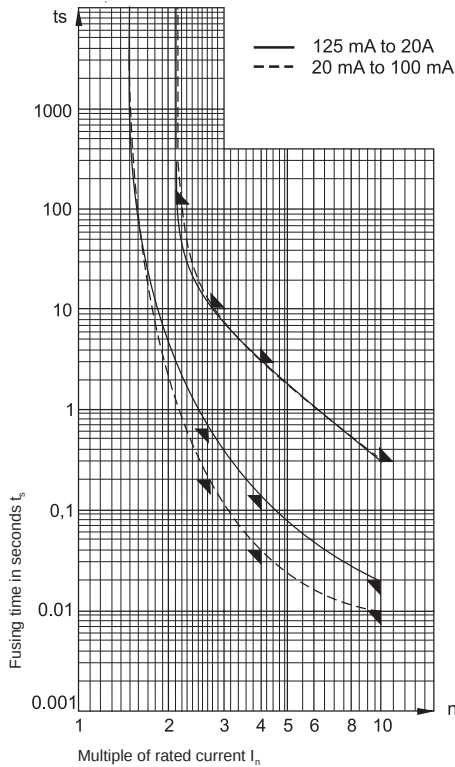
For pigtail fuses packaged loose: reference .PT after part number (e.g. 0001.2501.PT)

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

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

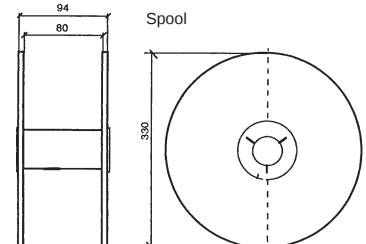
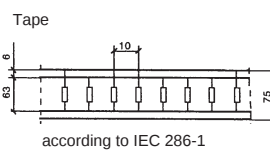
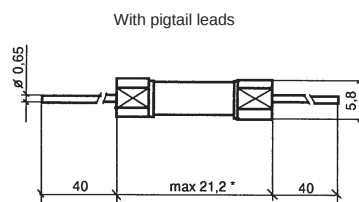
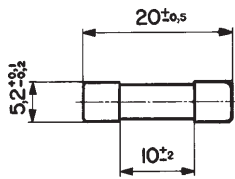
cUL	recognition	1A-16A/250V**	pending
VDE	approval	1A-16A/250V**	pending

**Contact Schurter for part numbers

Time Current Characteristics

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.
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



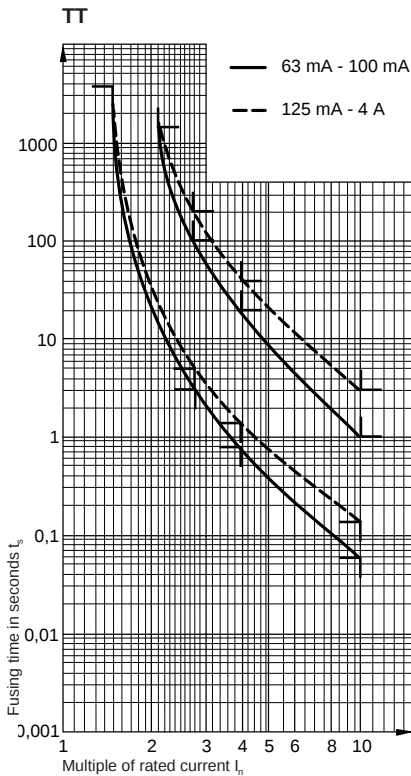
Order Numbers	Rated current / rated voltage	Breaking capacity	Voltage drop at I_n		Power dissipation at $1.5 \cdot I_n$			Pre-arcing $I^2 t$ at $10 \cdot I_n$	Approvals							
			max. IEC 127 mV	typical Schurter mV	max. IEC 127 Watts	max. Schurter Watts	typical Schurter Watts		UL	CSA	VDE	SEMKO	SEV	BSI	CB	BEAB
Series FST	mA / A / V~	A~						A ² s								
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	10 · I_n 250V / 50 Hz / p.f. 1	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	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



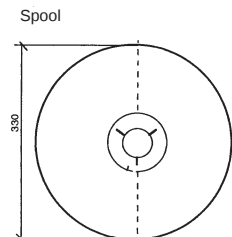
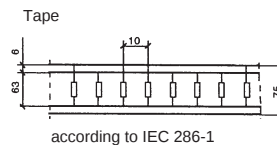
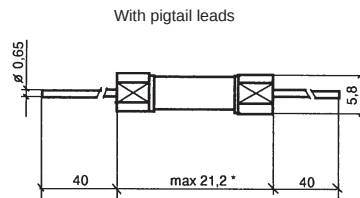
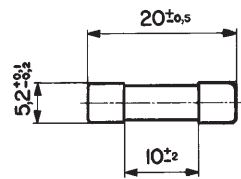
New version with gold plated caps for direct pcb mounting

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

**Contact Schurter for part numbers

Time Current Characteristics

n • I _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		

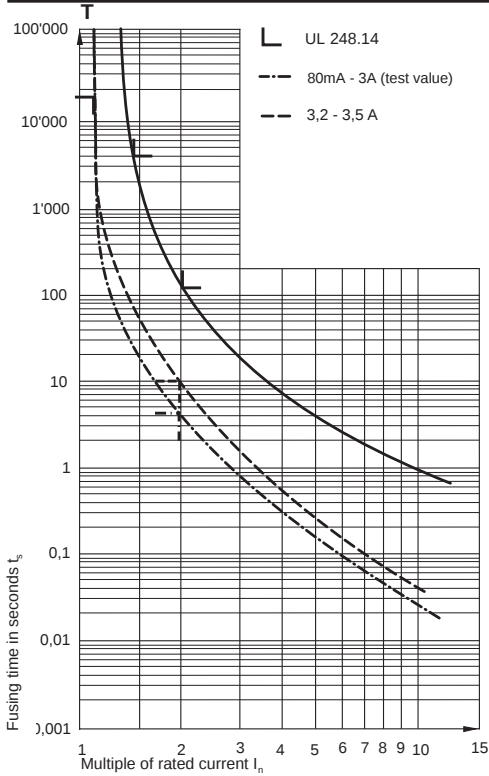


Order Numbers	Rated current / rated voltage	Breaking capacity	Voltage drop at I _n		Power dissipation at 1.5 • I _n		Operating I ² t
			max. Schurter mV	typical Schurter mV	max. Schurter Watts	typical Schurter Watts	
Series FTT	mA / A / V~	A~					A ² s
0034.5001	63 mA / 250V	35A / 250 V / 50 Hz / p.f.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

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 $\frac{1}{4} \times 1\frac{1}{4}$ " fuses for domestic use in UL/CSA approved fuseholders and/or power entry modules where space is a limiting factor.

Approvals:

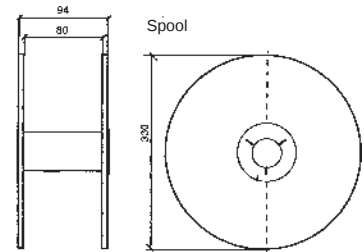
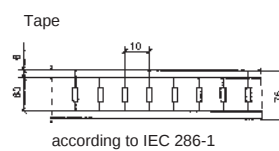
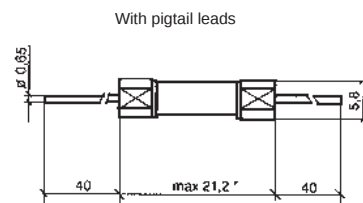
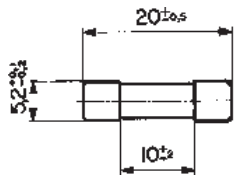
UL	listing	100mA-2A	File #E41599
CSA	certification	100mA-2A	File #LR51172

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.
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)