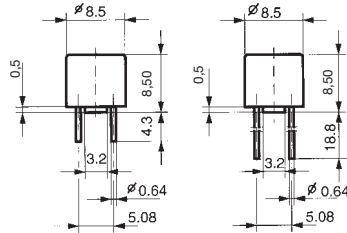


**Subminiature Fuses  
Type MSF 250**

**quick-acting F**  
low breaking capacity  
lead-free  
directly solderable into  
printed circuit boards or  
pluggable into fuseholders



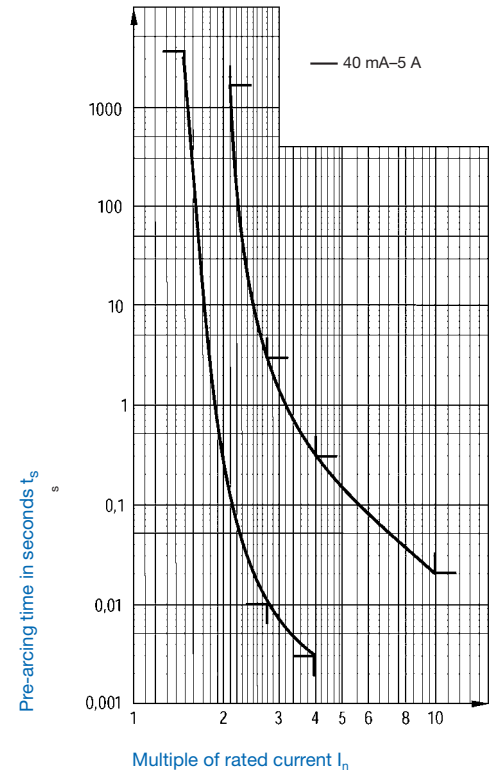
**Pre-arcing time/current  
characteristic (at T<sub>a</sub> 23 °C)**

Rated current I <sub>n</sub> / Nennstrom 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.	max.
40 mA – 5 A	60 min	30 min	10 ms	3 s	3 ms	300 ms	20 ms		

\* Non fusing current I<sub>nf</sub>

**Standards**

IEC 60127-3/3; EN 60127-3/3  
UL 248-14  
CSA C22.2 No. 248.14  
} with modifications based on IEC.../EN...



**Approvals**

- SEV
- VDE
- SEMKO
- UL
- CSA

Order No.	Terminals		Taped and reeled	Rated current I <sub>n</sub> Rated voltage U <sub>n</sub>	Breaking capacity	Voltage drop		Sustained power dissipation		Pre-arcing I <sup>2</sup> t	Approvals
	short	long				at max. I <sub>n</sub>	at 1,5 I <sub>n</sub>	at max. I <sub>n</sub>	at 10 · I <sub>n</sub>		
0034.6000*	0034.6030*	0034.6060*	40 mA / 250 V	35 A/250 V AC p.f. / cos φ 1		–	400	–	90	1,6 · 10 <sup>-4</sup>	• •
0034.6001	0034.6031	0034.6061	50 mA / 250 V			850	460	110	100	4 · 10 <sup>-4</sup>	• • • • •
0034.6002	0034.6032	0034.6062	63 mA / 250 V			750	330	120	100	1 · 10 <sup>-3</sup>	• • • • •
0034.6003	0034.6033	0034.6063	80 mA / 250 V			650	280	140	100	1 · 10 <sup>-3</sup>	• • • • •
0034.6004	0034.6034	0034.6064	100 mA / 250 V			600	300	160	100	2 · 10 <sup>-3</sup>	• • • • •
0034.6005	0034.6035	0034.6065	125 mA / 250 V			550	210	180	100	6 · 10 <sup>-3</sup>	• • • • •
0034.6006	0034.6036	0034.6066	160 mA / 250 V			500	460	210	200	1,4 · 10 <sup>-2</sup>	• • • • •
0034.6007	0034.6037	0034.6067	200 mA / 250 V			480	470	250	200	2,4 · 10 <sup>-2</sup>	• • • • •
0034.6008	0034.6038	0034.6068	250 mA / 250 V			440	360	290	200	5,8 · 10 <sup>-2</sup>	• • • • •
0034.6009	0034.6039	0034.6069	315 mA / 250 V			400	345	330	300	1,04 · 10 <sup>-1</sup>	• • • • •
0034.6010	0034.6040	0034.6070	400 mA / 250 V			370	80	390	100	4,4 · 10 <sup>-2</sup>	• • • • •
0034.6011	0034.6041	0034.6071	500 mA / 250 V			350	75	460	100	9 · 10 <sup>-2</sup>	• • • • •
0034.6012	0034.6042	0034.6072	630 mA / 250 V			320	70	530	100	1,5 · 10 <sup>-1</sup>	• • • • •
0034.6013	0034.6043	0034.6073	800 mA / 250 V			300	70	630	100	2,2 · 10 <sup>-1</sup>	• • • • •
0034.6014	0034.6044	0034.6074	1 A / 250 V			280	70	740	200	3,3 · 10 <sup>-1</sup>	• • • • •
0034.6015	0034.6045	0034.6075	1,25 A / 250 V			280	65	920	200	6,8 · 10 <sup>-1</sup>	• • • • •
0034.6016	0034.6046	0034.6076	1,6 A / 250 V			250	70	1000	300	9,4 · 10 <sup>-1</sup>	• • • • •
0034.6017	0034.6047	0034.6077	2 A / 250 V			240	70	1360	300	1,3	• • • • •
0034.6018	0034.6048	0034.6078	2,5 A / 250 V			200	65	1310	400	1,9	• • • • •
0034.6019	0034.6049	0034.6079	3,15 A / 250 V			180	65	1490	500	5,4	• • • • •
0034.6020	0034.6050	0034.6080	4 A / 250 V	160	60	1680	1000	7,9	• • • • •		
0034.6021	0034.6051	0034.6081	5 A / 250 V	150	60	1970	1000	11,2	• • • • •		

\* Not included in the standards, on request

Additional technical data and packaging see page 72



Technical data and packaging

Types **MSF 125**  
**MSF 250**  
**MST 250**  
**MSTU 250**  
**MXT 250**

Additional technical data

Ambient temperature max. $T_a$	MSF 125: - 25 °C to + 85 °C MSF / MST / MSTU / MXT 250: - 40 °C to + 85 °C
Permissible continuous operating current at 23 °C	MSF 125: $0,7 \cdot I_n$ Shift of the rated current at ambient air temperatures > 23 °C see diagramm on page 204 MSF / MST / MSTU / MXT 250: $1 \cdot I_n$
Resistance to vibration	Frequency $10 \div 2000$ Hz, cross-over frequency 60 Hz < 60 Hz constant amplitude of 1,5 mm (except MSF 125: 0,75 mm) > 60 Hz constant acceleration of 100 m/s <sup>2</sup> (10 g) according to IEC 60068-2-6, test Fc /
Resistance to shock	490 m/s <sup>2</sup> (50 g), 11 ms according to IEC 60068-2-27
Climate category	Types MSF 125, MXT 250, MSF 250, MST 250, MSTU 250 } $\left. \begin{matrix} 25/085/21 \\ 40/085/21 \end{matrix} \right\}$ according to IEC 60068-1
Fuse-link temp. rise $\leq 75$ K (UL/CSA)	Trackwidth for: $I_n \leq 4$ A    2,5 mm $I_n \leq 5$ A- 7 A    5,0 mm $I_n \leq 8$ A-10 A    10 mm
Solderability	235 °C / 2 sec. according to IEC 60068-2-20, test Ta
Soldering heat resistance	260 °C / 10 sec. according to IEC 60068-2-20, test Tb
Materials    Socket and cap  Terminals	temperature resistant plastic, UL 94V-0  Copper tin-plated

Packaging

- Boxes of 100 pieces
- Taped and reeled 750 pieces  
MSF 125, 1000 pieces
- Ammopack 1000 pieces on request

Tape and reel

according to IEC 60286-2

