

FUSES

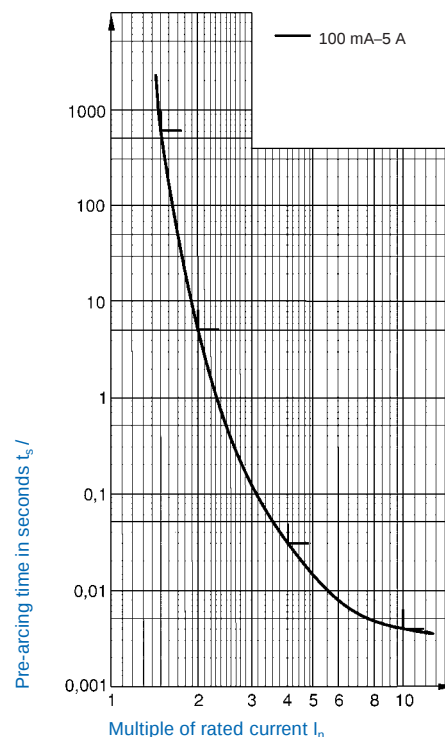
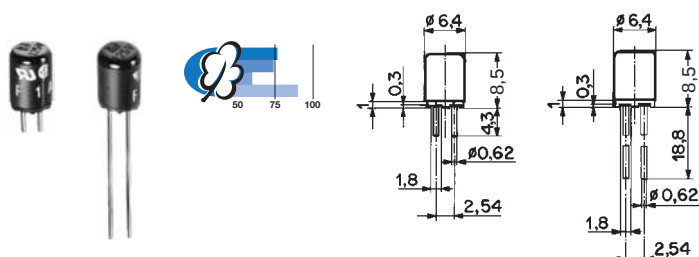
Non resettable fuses

MSF 125

Subminiature Fuses Type MSF 125

quick-acting F

lead-free
low breaking capacity
directly solderable into
printed circuit boards or
pluggable into fuseholders



Pre-arcing time/current characteristic (at T_a 23 °C)

$n \cdot I_n$	$1 \cdot I_n^1$	$1,5 \cdot I_n$	$2,0 \cdot I_n$	$2,75 \cdot I_n$	$4 \cdot I_n$	$10 \cdot I_n$
Rated current I_n /						
0,1 – 5 A	continuous	< 10 min	< 5 s	< 300 ms	< 30 ms	< 4 ms

¹ Non fusing current I_{nf}

Standards

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

Approvals



Order No.			Rated current I_n Rated voltage U_n	Breaking capacity	Voltage drop		Sustained power dissipation		Pre-arcing I^2t at $10 \cdot I_n$	Approvals
Terminals		Taped and reeled			at max. I_n	typ. I_n	at max. I_n	typ. I_n		
short***	long				mV	mV	IEC 60127 mW	typ. I_n mW	typ. I_n A²s	
0034.4209	0034.4239	0034.4539	100 mA / 125 V	UL/CSA: 300 A/125 V AC/DC p.f. / cos φ 1	1000	690	110	100	$7 \cdot 10^{-4}$	• •
0034.4210	0034.4240	0034.4540	125 mA / 125 V		1000	960	140	100	$1,5 \cdot 10^{-3}$	• •
0034.4211	0034.4241	0034.4541	160 mA / 125 V		1000	850	180	100	$3,6 \cdot 10^{-3}$	• •
0034.4212	0034.4242	0034.4542	200 mA / 125 V		700	680	140	100	$3,3 \cdot 10^{-3}$	• •
0034.4213	0034.4243	0034.4543	250 mA / 125 V		700	620	190	100	$5,5 \cdot 10^{-3}$	• •
0034.4214	0034.4244	0034.4544	315 mA / 125 V		700	680	240	200	$2,5 \cdot 10^{-2}$	• •
0034.4215	0034.4245	0034.4545	400 mA / 125 V		400	180	180	100	$1,3 \cdot 10^{-2}$	• •
0034.4216	0034.4246	0034.4546	500 mA / 125 V		400	180	220	100	$2 \cdot 10^{-2}$	• •
0034.4217	0034.4247	0034.4547	630 mA / 125 V		400	180	280	100	$4,5 \cdot 10^{-2}$	• •
0034.4218**	0034.4248**	0034.4548**	710 mA / 125 V			140		100	$4,5 \cdot 10^{-2}$	• •
0034.4219**	0034.4249**	0034.4549**	750 mA / 125 V			150		100	$6 \cdot 10^{-2}$	• •
0034.4220	0034.4250	0034.4550	800 mA / 125 V		400	150	370	100	$4 \cdot 10^{-2}$	• •
0034.4221	0034.4251	0034.4551	1 A / 125 V		190	150	210	100	$7 \cdot 10^{-2}$	• •
0034.4222	0034.4252	0034.4552	1,25 A / 125 V		190	150	260	200	$1,2 \cdot 10^{-1}$	• •
0034.4223	0034.4253	0034.4553	1,6 A / 125 V		190	150	330	200	$2,9 \cdot 10^{-1}$	• •
0034.4224	0034.4254	0034.4554	2 A / 125 V		190	130	420	200	$4,3 \cdot 10^{-1}$	• •
0034.4225	0034.4255	0034.4555	2,5 A / 125 V		190	120	520	300	$6 \cdot 10^{-1}$	• •
0034.4226	0034.4256	0034.4556	3,15 A / 125 V		190	120	660	400	1,1	• •
0034.4227	0034.4257	0034.4557	4 A / 125 V		190	120	840	500	1,9	• •
0034.4228	0034.4258	0034.4558	5 A / 125 V		190	120	1000	600	3,0	• •

* Deviations

• Time current characteristics: $I_n > 4h$

• Permissible continuous operating current: $\leq 0,7 \cdot I_n$

• Vibration and shock resistance: on request

• Cap: metal

** Not included in the standards

*** Also available with transparent or metal caps

Variable terminal lengths between 3 and 25,4 mm on request

Additional technical data and packaging see page 72



Suitable fuseholders see page 178, 179

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 MSF / MST / MSTU / MXT 250: $1 \cdot I_n$ > 23 °C see diagramm on page 204
Resistance to vibration	Frequency 10 ÷ 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 ² (10 g) according to IEC 60068-2-6, test Fc /
Resistance to shock	490 m/s ² (50 g), 11 ms according to IEC 60068-2-27
Climate category	Types MSF 125 } 25/085/21 } MXT 250 } 40/085/21 } according to IEC 60068-1 MSF 250 } MST 250 } MSTU 250 }
Fuse-link temp. rise ≤ 75 K (UL/CSA)	Trackwidth for: $I_n \leq 4 \text{ A}$ 2,5 mm $I_n \leq 5 \text{ A} - 7 \text{ A}$ 5,0 mm $I_n \leq 8 \text{ A} - 10 \text{ A}$ 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	temperature resistant plastic, UL 94V-0
Terminals	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

