

# MSF 125V Quick-acting Microfuse



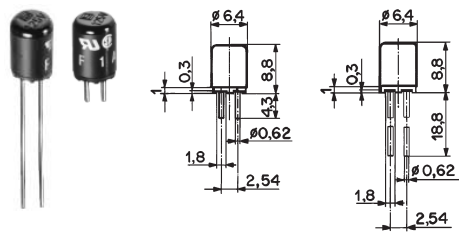
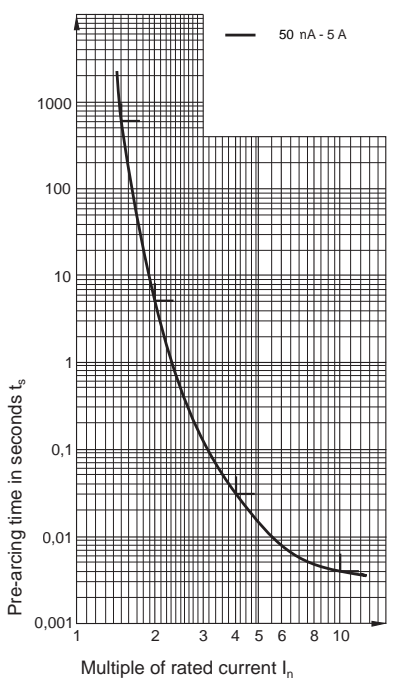
IEC 127-3/1; EN 60127-3/1  
 UL 248-14 (formerly 198.G)  
 CSA C22.2 No. 248.14 (formerly 59.2-M)

**NEW**

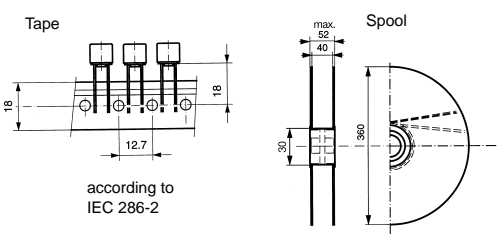
Surge tolerant version for telecom available; see page 163.

**Approvals:**

UL recognition 100mA – 5A File #E41599  
 CSA certification 100mA – 5A File #LR51172  
 (transparent cap: file #E67006)



Directly solderable into printed circuit boards or plugable into fuseholders. Wave solderable and washable in aqueous solutions.



**Time current characteristic**

Rated current $I_n$	$n \cdot I_n$	$1 \cdot I_n$	$1.5 \cdot I_n$	$2.0 \cdot I_n$	$2.75 \cdot I_n$	$4 \cdot I_n$	$10 \cdot I_n$
		UL/IEC	UL	UL/IEC	IEC	IEC	IEC
0,05 – 5 A		contin.	<10 min.	<5 s	<300 ms	<30 ms	<4 ms



Optional 125V microfuse holder, order number: FMS 0031.7501 (vertical mount) or FMR 0031.7505 (horizontal mount). See page 90 for more information.

**Technical data**

<b>Ambient temperature max. <math>T_{amb}</math></b>	- 25 °C to + 85 °C
<b>Capacity at different <math>T_{amb}</math></b>	1 · $I_n$ up to max. 40 °C 0,9 · $I_n$ up to max. 85 °C
<b>Vibration resistance</b>	Frequency 10 ÷ 2000 Hz, amplitude of 0,75 mm, constant acceleration 100 m/s <sup>2</sup> (10 g) acc. to IEC 68-2-6, test Fc
<b>Shock resistance</b>	490 m/s <sup>2</sup> (50 g), 11 ms (IEC 68-2-27)
<b>Climate category</b>	HPF according to DIN 40040
<b>Solderability</b>	235 °C / 2 sec. according to IEC 68-2-20, test Ta (DIN 40046)
<b>Soldering heat resistance</b>	260 °C / 10 sec. according to IEC 68-2-20, test Tb (DIN 40046)
<b>Materials</b>	Socket and cap made of temperature resistant plastic (UL 94V-0)
<b>Terminals</b>	Copper tin-plated

Order No., MSF 125 transparent cap	black cap		metal cap***			Rated curr. / rated voltage mA / A / V ~	Breaking capacity A ~	Voltage drop at $I_n$		Power dissipation at 1 · $I_n$		Fusing $I^2 t$ t<10ms A <sup>2</sup> s	Appr.
	Short leads	Long (A) leads	Short leads	Long (B) leads	Short leads			Long leads	max. IEC 127 mV	typical Schurter mV	max. IEC 127 Watts		
			0034.4707*	0034.4708*			50 mA / 125V	50A/125V AC		800		0.00007	•
0034.4909	0034.6339	0034.4209	0034.4239	0034.4269	0034.4299	100 mA / 125V	IEC: 50A/125V AC/DC p.f. 1  UL/CSA: 300A/125V AC/DC p.f. 1	1000	690	0.11	0.1	0.0007	• •
0034.4910	0034.6340	0034.4210	0034.4240	0034.4270	0034.4300	125 mA / 125V		1000	960	0.14	0.1	0.0015	• •
0034.4911	0034.6341	0034.4211	0034.4241	0034.4271	0034.4301	160 mA / 125V		1000	850	0.18	0.1	0.0036	• •
0034.4912	0034.6342	0034.4212	0034.4242	0034.4272	0034.4302	200 mA / 125V		700	680	0.14	0.1	0.0033	• •
0034.4913	0034.6343	0034.4213	0034.4243	0034.4273	0034.4303	250 mA / 125V		700	620	0.19	0.1	0.0055	• •
0034.4914	0034.6344	0034.4214	0034.4244	0034.4274	0034.4304	315 mA / 125V		700	680	0.24	0.2	0.025	• •
0034.4915	0034.6345	0034.4215	0034.4245	0034.4275	0034.4305	400 mA / 125V		400	180	0.18	0.1	0.013	• •
0034.4916	0034.6346	0034.4216	0034.4246	0034.4276	0034.4306	500 mA / 125V		400	180	0.22	0.1	0.020	• •
0034.4917	0034.6347	0034.4217	0034.4247	0034.4277	0034.4307	630 mA / 125V		400	180	0.28	0.1	0.045	• •
0034.4918**	0034.6348**	0034.4218**	0034.4248**	0034.4278**	0034.4308**	710 mA / 125V		140	70	0.10	0.1	0.045	• •
0034.4919**	0034.6349**	0034.4219**	0034.4249**	0034.4279**	0034.4309**	750 mA / 125V		170	100	0.12	0.1	0.020	• •
0034.4920	0034.6350	0034.4220	0034.4250	0034.4280	0034.4310	800 mA / 125V		400	150	0.37	0.1	0.040	• •
0034.4921	0034.6351	0034.4221	0034.4251	0034.4281	0034.4311	1 A / 125V		190	150	0.21	0.1	0.070	• •
0034.4922	0034.6352	0034.4222	0034.4252	0034.4282	0034.4312	1.25 A / 125V		190	150	0.26	0.2	0.120	• •
0034.4923	0034.6353	0034.4223	0034.4253	0034.4283	0034.4313	1.6 A / 125V		190	150	0.33	0.2	0.290	• •
0034.4924	0034.6354	0034.4224	0034.4254	0034.4284	0034.4314	2 A / 125V		190	130	0.42	0.2	0.430	• •
0034.4925	0034.6355	0034.4225	0034.4255	0034.4285	0034.4315	2.5 A / 125V		190	120	0.52	0.3	0.600	• •
0034.4926	0034.6356	0034.4226	0034.4256	0034.4286	0034.4316	3.15 A / 125V		190	120	0.66	0.4	1.110	• •
0034.4927	0034.6357	0034.4227	0034.4257	0034.4287	0034.4317	4 A / 125V		190	120	0.84	0.5	1.890	• •
0034.4928	0034.6358	0034.4228	0034.4258	0034.4288	0034.4318	5 A / 125V	190	120	1.0	0.6	3.040	• •	

\* 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 mentioned in the standards  
 \*\*\* 1,000 pieces minimum order required for metal cap  
 Variable terminal lengths between 3 and 25,4 mm on request

(A) change sixth digit from "3" to "5" for tape and reel part number (e.g. 0034.6539, 1,000 pieces)  
 (B) change sixth digit from "2" to "5" for tape and reel part number (e.g. 0034.4539, 1,000 pieces)