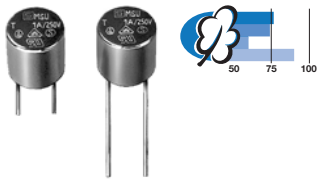
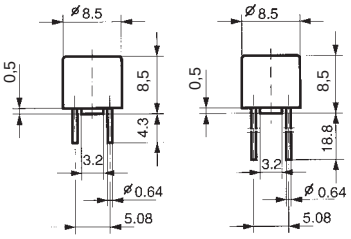
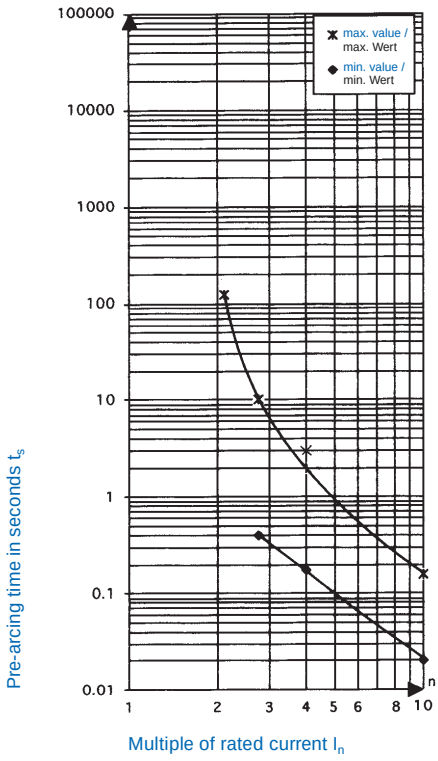
Subminiature Fuses Type MSU 250

available in lead-free version NEW
directly solderable into printed circuit boards or plugable into fuseholder







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

Rated current I_n \ $n \cdot I_n$	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.
0,25–3,15 A	60 min	2 min	400 ms	10 s	150 ms	3 s	20 ms	150 ms

* Non fusing current I_{nf}

Approvals

SEV
VDE
SEMKO
c UL us

Standards

IEC 60127-3/4; EN 60127-3/4
UL 248-14
CSA C22.2 No. 248.14
ITU-T K.20/UL 1459/GR 1089

} with modifications based on IEC…/EN… /

The standards do not contain requirements for fig. 1–5.
Therefore test-agencies do not carry out tests

Breaking capacity 35 A or 10 · I_n / 250 V AC
p.f. / cos φ 1

Order No. Terminals short	Order No. Terminals long	Order No. Taped and reeled	Rated current I_n Rated voltage U_n	Voltage drop at I_n typ. mV	Sustained power dissipation at 1,5 I_n typ. mW	Pre-arcing I^2t at 10 · I_n typ. A^2s	ITU-T K.20 Fig. 1 Lightning Surge 10x1 kV/ 10/700 µs I_{puls} max. A	ITU-T K.20 Fig. 2 Power Induction AC 300 V / 0,5 A 5 x 200 ms 6)	ITU-T K.20 Fig. 3 Power Contact AC 250 V / 15 min I_{SC} max. A	UL 1459 Fig. 4 AC 600 V 40A / 1,5s 7A / 5s 2,2A / 30 min 6)	GR 1089 Fig. 5 1000 V 50 x 10/ 1000 µs I_{puls} max. A
2040.0609	2040.0709	2040.0809	250 mA / 250 V	120	80	$6 \cdot 10^{-1}$	25,3	•	35		14 (5)
2040.0610	2040.0710	2040.0810	315 mA / 250 V	120	100	$8 \cdot 10^{-1}$	29,2	•	35		14 (5)
2040.0611	2040.0711	2040.0811	400 mA / 250 V	110	100	1,1	39,5	•	35		14 (5)
2040.0612	2040.0712	2040.0812	500 mA / 250 V	100	100	2,5	57	•	35		14 (5)
2040.0613	2040.0713	2040.0813	630 mA / 250 V	90	100	4	67 (1)	•	35		14 (5)
2040.0614	2040.0714	2040.0814	800 mA / 250 V	80	200	8	67 (1)	•	35	•	14 (5)
2040.0615	2040.0715	2040.0815	1 A / 250 V	70	200	12	67 (1)	•	35	•	14 (5)
2040.0616	2040.0716	2040.0816	1,25 A / 250 V	70	300	15	67 (1)	•	35	•	14 (5)
2040.0617	2040.0717	2040.0817	1,6 A / 250 V	60	300	30	67 (1)	•	50	•	14 (5)
2040.0618	2040.0718	2040.0818	2 A / 250 V	60	300	34	67 (1)	•	50	•	14 (5)
2040.0619	2040.0719	2040.0819	2,5 A / 250 V	50	400	55	67 (1)	•	50	•	14 (5)
2040.0620	2040.0720	2040.0820	3,15 A / 250 V	50	500	76	67 (1)	•	50	•	14 (5)

Explanation for fig. 1–5 and index (1) / (5) see pages 210–213

6) test carried out

Additional technical data and packaging see page 128

Suitable fuseholder see page 178, 179

Technical data and packaging
Types MSU 125 MSU 250

Additional technical data

Ambient temperature max. T_a	MSU 125: – 25 °C to + 85 °C MSU 250: – 40 °C to + 85 °C
Permissible continuous operating current at 23 °C	MSU 125: 0,7 · I_n Shift of the rated current at ambient air temperatures > 23 °C MSU 250: 1 · I_n 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 MSU 125 V: 0,75 mm) > 60 Hz constant acceleration of 100 m/s² (10 g) according to IEC 60068-2-6, test Fc
Resistance to shock	490 m/s² (50 g), 11 ms according to IEC 60068-2-27
Climate category	Types MSU 125: HPF MSU 250: GPF according to DIN 40040
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
  MSU 125, 1000 pieces

Tape and reel

according to IEC 60286-2