

Midget Fuse, 10.3 x 38 mm, 1000 VDC, Photovoltaic, gPV

new



Standard

PCB version

1000VDC · gPV



### Description

- Meets the new UL and IEC photovoltaic standards
- UL Recognized for 1000 VDC
- High breaking capacity of 20 kA @ 1000 VDC
- Low min. interrupting rating of 1.35 x I<sub>n</sub>
- Meets the requirements of IEC 61730-2 for PV module safety

### Standards

- IEC 60269-6
- UL 2579

### Approvals

- VDE Certificate Number: 40033592
- UL File Number: E345791

### Applications

- All photovoltaic applications
- Inverters
- Battery charge controllers
- In-line protection
- String fuses


### References

Corresponding Fuseholder [FSO](#); [CSO](#); [231660](#)  
Corresponding Cover [ESO 10.3x38](#)

### Weblinks


[pdf-datasheet](#), [html-datasheet](#), [General Product Information](#), [Packaging details](#), [Approvals](#), [CE declaration of conformity](#), [RoHS](#), [CHINA-RoHS](#), [REACH](#), [Distributor-Stock-Check](#), [Accessories](#), [Detailed request for product](#)

### Technical Data

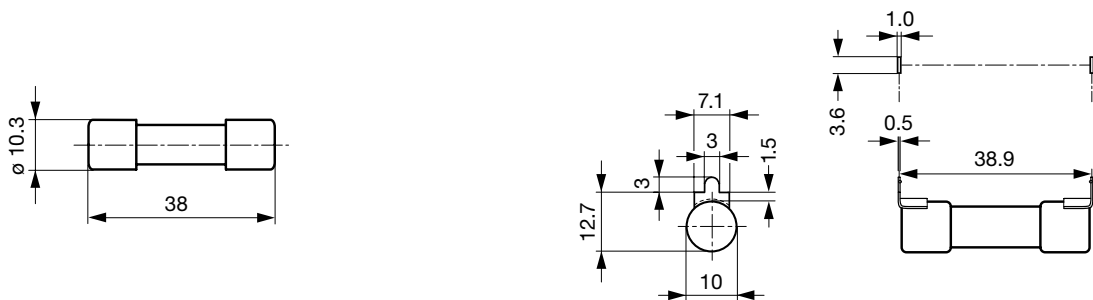
Rated Voltage	1000VDC
Rated current	1 - 30A
Breaking Capacity	20kA
Characteristic	gPV
Mounting	Insert, PCB/THT
Admissible Ambient Air Temp.	-50 °C to 125 °C
Unit Weight	8.3 g
Storage Conditions	0 °C to 60 °C, max. 70% r.h.
Product Marking	 Type, Rated current, Rated Voltage, Breaking Capacity, Characteristic, Approvals

### Dimension

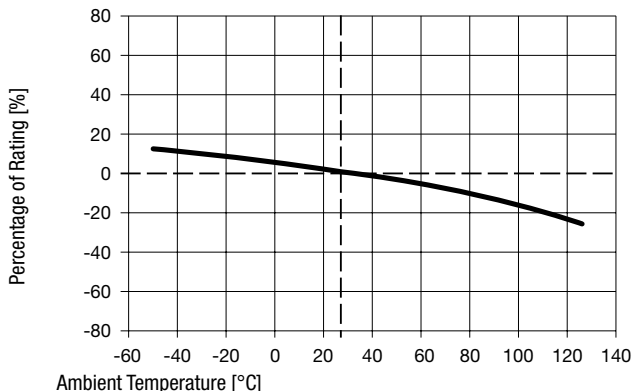
Standard

 10.3 mm

Panel cut-out for front mounting



## Derating Curves

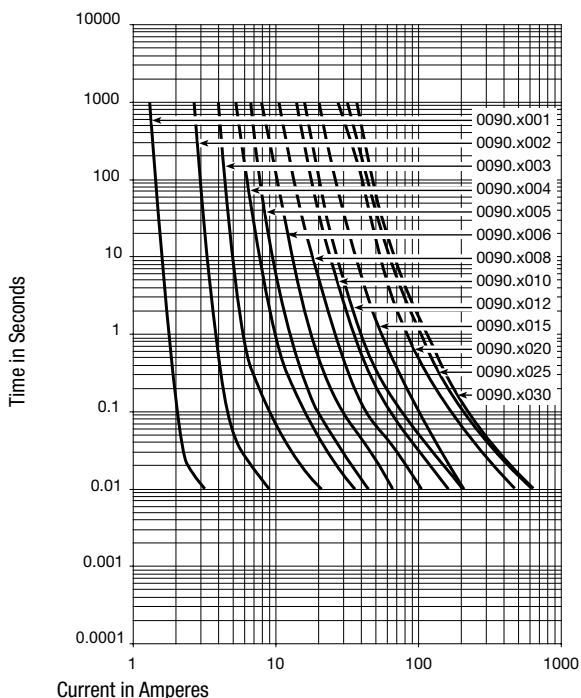


## Pre-Arcing Time



Rated Current  $I_n$      $1.0 \times I_n$  min.     $1.13 \times I_n$  min.     $1.35 \times I_n$  max.     $1.45 \times I_n$  max.     $2.0 \times I_n$  max.

1 A - 30 A	60 min	60 min	60 min	60 min	4 min
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## Time-Current-Curves



## All Variants

Rated Current [A]	Mounting	Rated Voltage [VDC]	Breaking Capacity	Power Dissipation $1.0 I_n$ typ. [mW]	Melting $I^2t$ 20 kA typ. [A <sup>2</sup> s]			Order Number
1	Standard	1000	1)	602	0.554	●	●	0090.0001
2	Standard	1000	1)	1586	4.755	●	●	0090.0002
3	Standard	1000	1)	1504	7.882	●	●	0090.0003
4	Standard	1000	1)	1491	23.03	●	●	0090.0004
5	Standard	1000	1)	1465	42.6	●	●	0090.0005
6	Standard	1000	1)	1348	80.25	●	●	0090.0006
8	Standard	1000	1)	1610	199	●	●	0090.0008

10	Standard	1000	1)	1760	401	●	●	0090.0010	■
12	Standard	1000	1)	1965	642	●	●	0090.0012	■
15	Standard	1000	1)	1914	505	●	●	0090.0015	■
20	Standard	1000	1)	2810	1313	●	●	0090.0020	■
25	Standard	1000	1)	2981	2371	●	●	0090.0025	■
30	Standard	1000	1)	3923	2679		●	0090.0030	■
1	PCB	1000	1)	602	0.554	●	●	0090.1001	
2	PCB	1000	1)	1586	4.755	●	●	0090.1002	
3	PCB	1000	1)	1504	7.882	●	●	0090.1003	
4	PCB	1000	1)	1491	23.03	●	●	0090.1004	
5	PCB	1000	1)	1465	42.6	●	●	0090.1005	
6	PCB	1000	1)	1348	80.25	●	●	0090.1006	
8	PCB	1000	1)	1610	199	●	●	0090.1008	
10	PCB	1000	1)	1760	401	●	●	0090.1010	
12	PCB	1000	1)	1965	642	●	●	0090.1012	
15	PCB	1000	1)	2282	505	●	●	0090.1015	
20	PCB	1000	1)	2810	1313	●	●	0090.1020	
25	PCB	1000	1)	2981	2371	●	●	0090.1025	
30	PCB	1000	1)	3923	2679		●	0090.1030	

■ Most Popular.

Availability for all products can be searched real-time: <http://www.schurter.com/Stock-Check/Stock-Check-SCHURTER>

1) 20 kA @ 1000 VDC, L/R < 2ms

Packaging Unit	Standard version	Bulk (10 pcs.)
	PCB version	Bulk (100 pcs.)

## Zubehör

### Description



ESO 10.3x38  
Fuse Inserter/Extractor with Cover Function for 10.3x38 mm Fuses in Clips, Patent Pending