A83 gPV 1000 /1100 Vdc Fuse 10x38 mm

DESCRIPTION

Adler A83 series PV fuses are engineered and manufactured for use in Combiner Box and Power Storage Protection, made from the highest quality materials and tested to the highest standards. With rated currents from 1A to 32A with a breaking capacity of 30kA.

AGENCY INFORMATION

- UL and CSA(C22.2 N0. 248.19) Listed File E490190, Rated Voltage 1000VDC/1100VDC
- Approvals: IEC 60269-6/GBT 13539.6
- Manufactured under IATF 16949 quality system
- RoHS and REACH Compliant

FEATURES:

- 1000/1100 Vdc,10x38mm PV fuse link with glass-fiber
- Rated Current: 1-32 A
- Breaking Capacity: 30 kA at 1100 Vdc(1-32 A)

  Self - Certified: 50 kA at 1100 Vdc (1-20A)
- Time Constant: 1-3 ms
- Special design with silver plated caps for high-power PV applications
- BH100-01, BH100-02 holders for DIN rail mounting
- Customizable for special applications

APPLICATIONS:

- PV combiner/ junction boxes
- Inverters

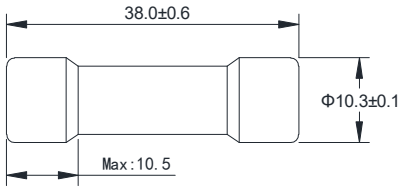
PART NUMBERING SYSTEM

A83 2320 7 10

- 10: Supplementary Code: 10:Cylindrical; 11: Level Mount; 12: Central Mount; 13: PCB 2P; 16: PCB 4P
- 7: Rated Voltage: 1100 V
- 2320: Ampere Code:See Table 2
- A83: Product Series: A83

DIMENSIONS (mm)

A83xxxx710



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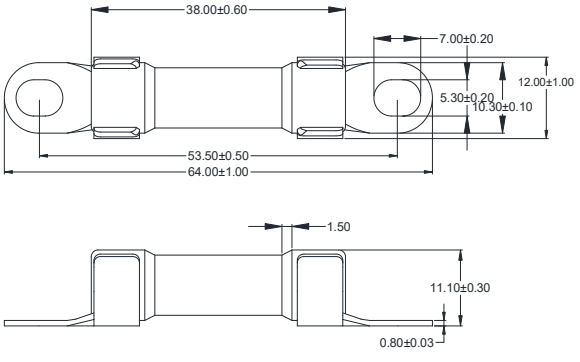

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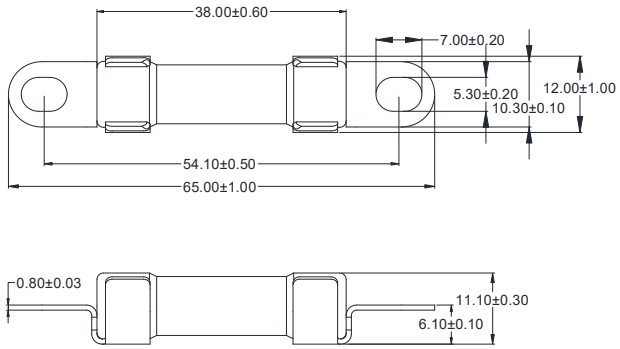

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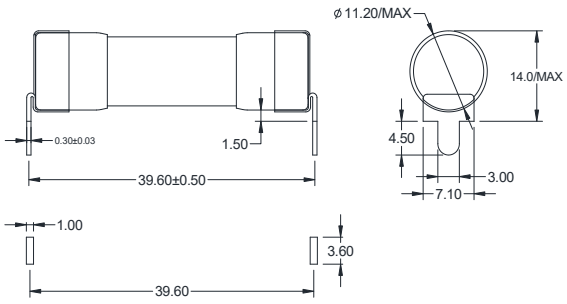

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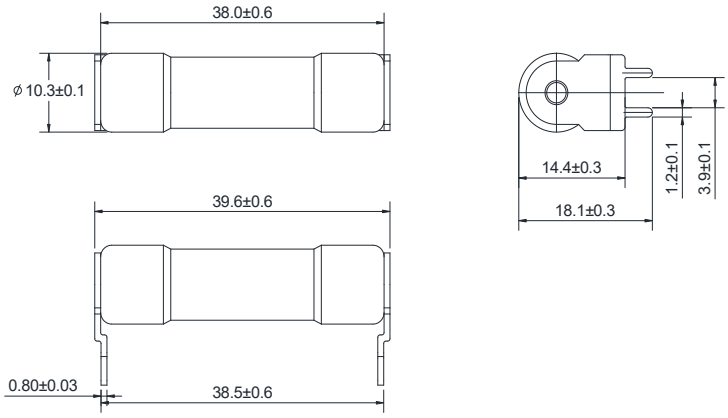


Table1

Packing information

Fuse Size	Box specifications (mm)	Packing quantity / per container	Weight / PCS (g)	Mounting Method	mounting requirements
A83xxxx710	410×215×160	1200pcs	7.6±3%	BH100/02	-
A83xxxx711	410×215×160	720pcs	11.5±3%	M5	4.5±1
A83xxxx712	410×215×160	720pcs	11.5±3%	M5	4.5±1
A83xxxx713	410×215×160	1200pcs	8.6±3%	PCB	-
A83xxxx716	410×215×160	720pcs	9.1±3%	PCB	-

Table2

ELECTRICAL SPECIFICATIONS

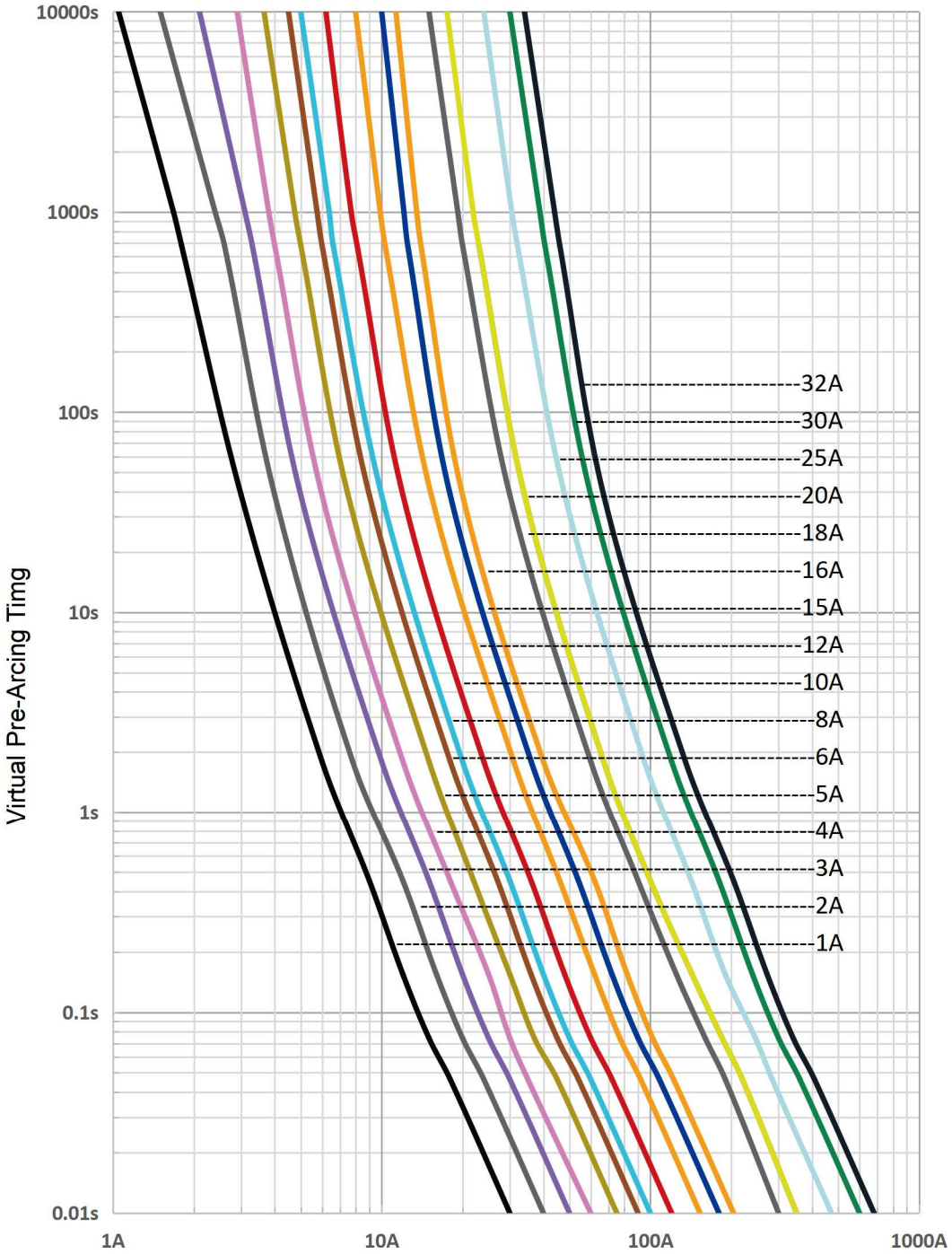
Part Number					Rated Current	Ampere Code	Breaking Capacity	I^2t (A^2s)		Dissipation(W)		Certifications	
Cylindrical	Level	Central	PCB 2P	PCB 4P				Pre-Arcing	Total	80% I_n	100% I_n	UL	TUV
A831100710	A831100711	A831100712	A831100713	A831100716	1A	1100	30 kA@ 1100 Vdc	20	110	0.1	0.1	•	•
A831200710	A831200711	A831200712	A831200713	A831200716	2A	1200		40	220	0.2	0.3	•	•
A831300710	A831300711	A831300712	A831300713	A831300716	3A	1300		60	330	0.3	0.4	•	•
A831400710	A831400711	A831400712	A831400713	A831400716	4A	1400		80	440	0.4	0.6	•	•
A831500710	A831500711	A831500712	A831500713	A831500716	5A	1500		100	550	0.5	0.7	•	•
A831600710	A831600711	A831600712	A831600713	A831600716	6A	1600		120	660	0.6	0.9	•	•
A831800710	A831800711	A831800712	A831800713	A831800716	8A	1800		160	880	0.9	1.1	•	•
A832100710	A832100711	A832100712	A832100713	A832100716	10A	2100		200	1100	1.1	1.4	•	•
A832120710	A832120711	A832120712	A832120713	A832120716	12A	2120		240	1320	1.3	1.7	•	•
A832150710	A832150711	A832150712	A832150713	A832150716	15A	2150		300	1650	1.6	2.2	•	•
A832160710	A832160711	A832160712	A832160713	A832160716	16A	2160		310	1660	1.6	2.2	•	•
A832180710	A832180711	A832180712	A832180713	A832180716	18A	2180		380	2100	1.8	2.9	•	•
A832200710	A832200711	A832200712	A832200713	A832200716	20A	2200		400	2200	2.1	2.9	•	•
A832250710	A832250711	A832250712	A832250713	A832250716	25A	2250		500	2750	2.7	3.6	•	•
A832300710	A832300711	A832300712	A832300713	A832300716	30A	2300		600	3300	3.2	4.3	•	•
A832320710	A832320711	A832320712	A832320713	A832320716	32A	2320		850	3750	4.0	5.5	•	•

Table3

TIME VS CURRENT CHARACTERISTIC

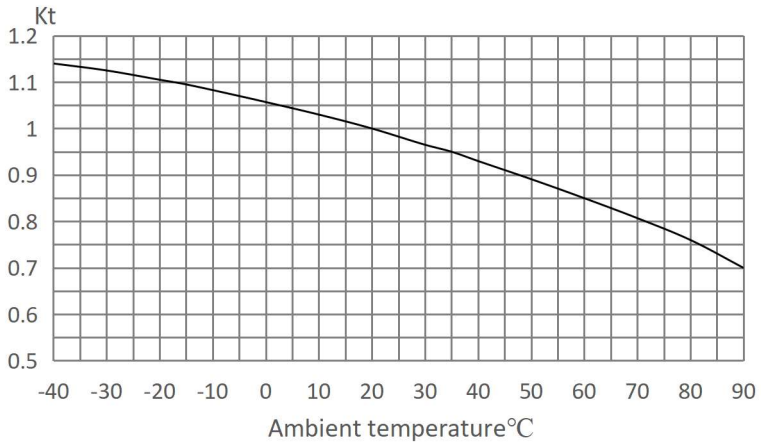
Standard	UL			IEC		
Rated Current	100 %	135 %	200 %	100 %	105%	135 %
1-32 A	Temperature Stabilization	<1 h	<4 min	Temperature Stabilization	>1 h	<2 h

Time Current Curve (reference)



TEMPERATURE CORRECTION CURVE

When the fuse is operating below -5℃ or above 40℃, the rated current needs additional modification. The correction factor is Kt.



Operating conditions:

Where the following conditions apply, fuses complying with this standard are deemed capable of operating satisfactorily without further qualification.

- Normal temperature: -5℃~40℃, permissible operating temperature：-40℃~90℃.
- The altitude of the site of installation of the fuses should not exceed 2000 m above sea level and permissible altitude site of installation does not exceed 5000m.
- The air should be clean and its relative humidity does not exceed 50 % at the maximum temperature of 40℃.
- Higher relative humidity's are permitted at lower temperatures, e.g., 90 % at 20℃.
- Pollution grade Ⅲ
- Under these conditions, moderate condensation may occasionally occur due to variation in temperature.
- For operating conditions other that above, please contact the manufacturer.

Storage:

During transportation and storage, customer should avoid water seepage and mechanical damage.

WEB RESOURCES

Download the latest technical documents: www.adlerelectric.com. Specifications are subject to change without notice.