A96 gPV 2000 Vdc Fuse 22x85 mm

DESCRIPTION

Adler A96 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 10A to 60A with a breaking capacity of 50kA.

AGENCY INFORMATION

- Standard: UL 248-19, IEC 60269-6
- Manufactured under IATF 16949 quality system
- RoHS and REACH Compliant

FEATURES:

- 2000 Vdc, 22x85mm PV fuse link with glass-fiber body
- Rated Current: 10-60 A
- Breaking Capacity: 50 kA at 2000 Vdc
- Time Constant: 1-3 ms
- Special design with silver plated caps for high-power PV applications
- Customizable for special applications

APPLICATIONS

- PV combiner / junction boxes
- Inverters
- Battery Charge Controllers

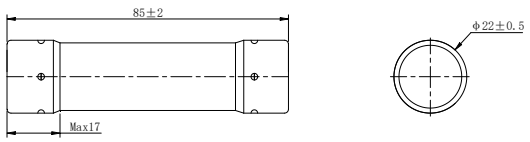
PART NUMBERING SYSTEM

A96 2100 b 01

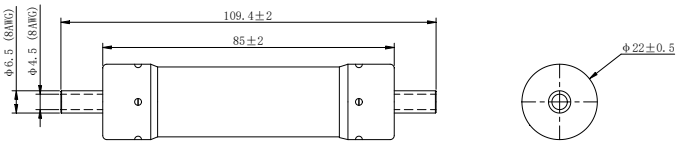
- 01: Supplementary Code: 00: Cartridge; 01: 8 AWG In-terminal; 02: Level Mount;
- b: Rated Voltage: b: 2000 Vdc
- 2100: Ampere Code: 10 A (see ampere code column of electrical specifications)
- A96: Product Series: A96

DIMENSIONS (mm)

A96xxxxb00



A96xxxxb01



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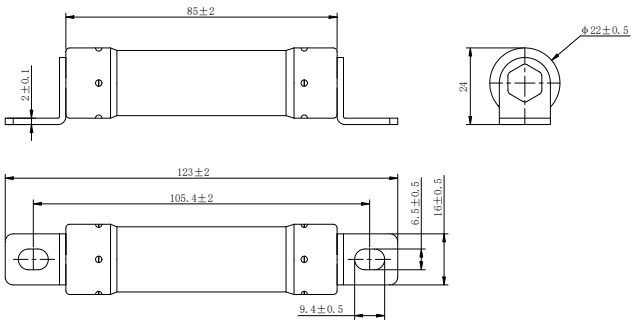


Table1

Packing information

Fuse Size	Box specifications (mm)	Packing quantity / per container	Weight / PCS (g)	Mounting Method	Mounting requirements
A96xxxxb00	410×215×160	120pcs	67±3%	BH600	-
A96xxxxb01	410×215×160	120pcs	65±3%	8AWG	-
A96xxxxb02	410×215×160	120pcs	67±3%	M6	6±1N • m

Table2

ELCTRICAL SPECIFICATIONS

Part Number			Rated Current	Ampere Code	Breaking Capacity	I^2t (A^2s)		Dissipation(W)		Certifications	
Cartridge	8 AWG In-terminal	Level Mount				Pre-Arcing	Total	0.7 I_n	1.0 I_n	UL	TUV
A962100b00	A962100b01	A962100b02	10 A	2100	50kA 2000Vdc	970	1360	1.12	4.0	○	○
A962150b00	A962150b01	A962150b02	15 A	2150	50kA 2000Vdc	1120	1570	1.48	5.3	○	○
A962200b00	A962200b01	A962200b02	20 A	2200	50kA 2000Vdc	1290	1800	1.93	6.9	○	○
A962500b00	A962500b01	A962500b02	25 A	2550	50kA 2000Vdc	2020	2850	2.13	7.6	○	○
A962300b00	A962300b01	A962300b02	30 A	2300	50kA 2000Vdc	3400	4760	2.33	8.3	○	○
A962350b00	A962350b01	A962350b02	35 A	2350	50kA 2000Vdc	4150	5810	2.69	9.6	○	○
A962400b00	A962400b01	A962400b02	40 A	2400	50kA 2000Vdc	5160	7220	3.03	10.8	○	○
A962450b00	A962450b01	A962450b02	45 A	2450	50kA 2000Vdc	5860	8200	3.17	11.3	○	○
A962500b00	A962500b01	A962500b02	50 A	2500	50kA 2000Vdc	8050	11200	3.53	12.6	○	○
A962550b00	A962550b01	A962550b02	55 A	2550	50kA 2000Vdc	11400	16900	4.15	14.8	○	○
A962600b00	A962600b01	A962600b02	60 A	2600	50kA 2000Vdc	13600	19100	4.57	16.3	○	○

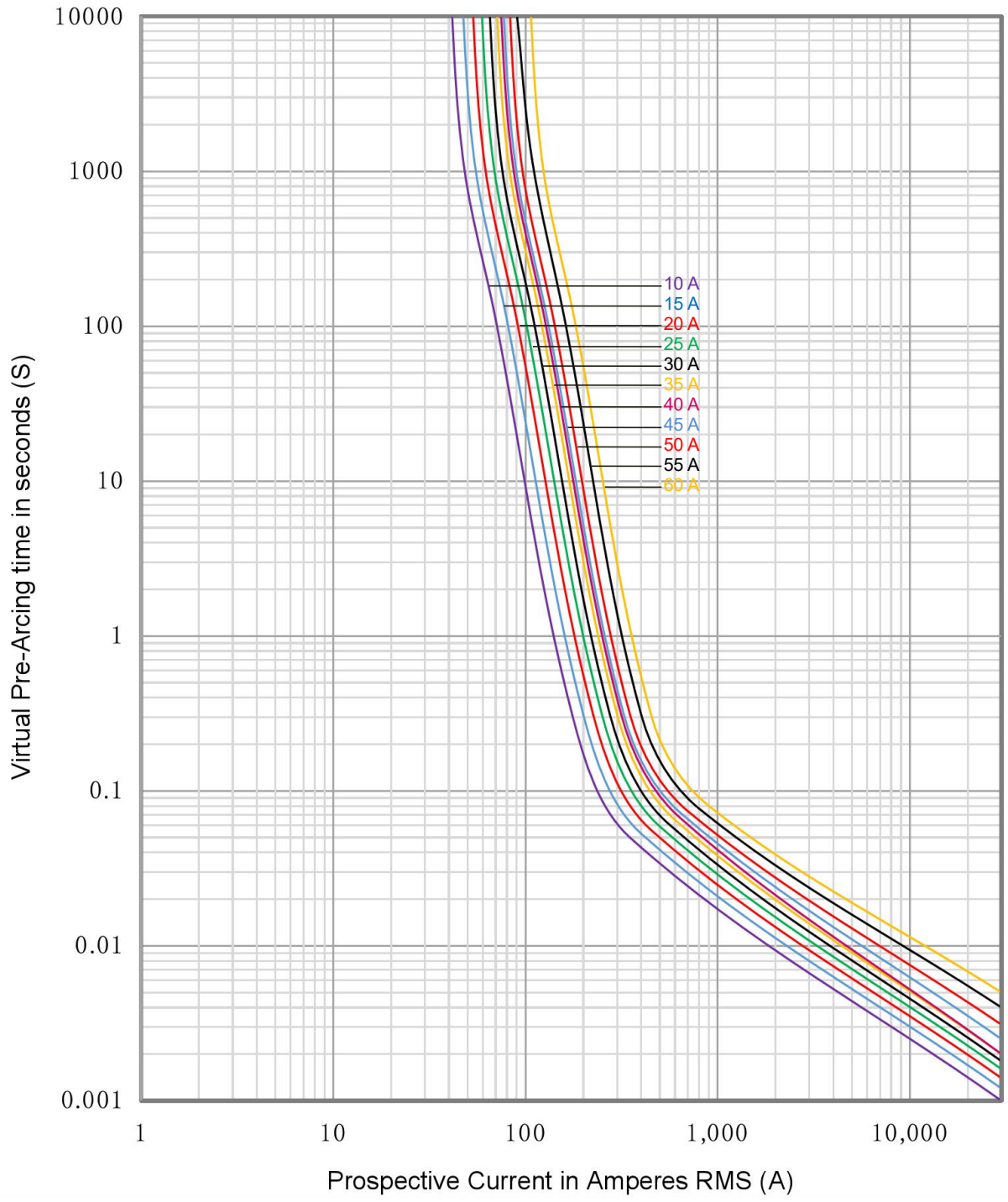
Table3

TIME VS CURRENT CHARACTERISTIC

Standard	UL			IEC		
Rated Current	100 %	135 %	200 %	100 %	113 %	145 %
10-60 A	Temperature Stabilization	<1 h	<4 min	Temperature Stabilization	>1 h	<1 h

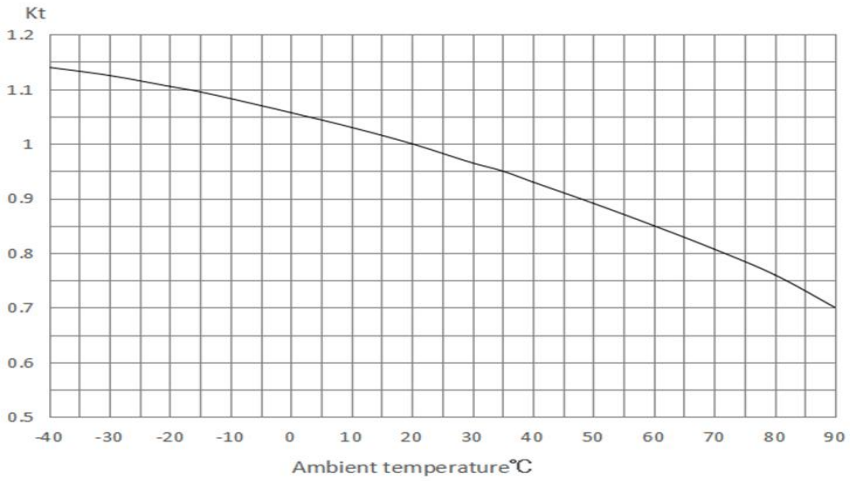
TIME CURRENT CURVE

Average Current Curve(I-T Curve)



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.

- Installation suggestion: Screw M6, Tightening torque 6±1N • m.
- 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.