A85 gPV 1500 Vdc Fuse 10×85 mm

DESCRIPTION

Adler A85 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.

FEATURES

- 1500 Vdc, 10×85 mm PV fuse-link with glass-fiber body
- Rated Current: 1-32 A
- Rated Breaking Capacity: 30 kA @ 1500 Vdc
- Time Constant: 1-3 ms
- Special design with silver plated caps for high-power PV applications
- Customizable for special applications
- BH300-01, BH300-02 holders for DIN rail mounting

AGENCY INFORMATION

- Approvals: UL 248-19 (File: E490190)、TUV(File:50475498)
- Approvals: IEC 60269-6
- Manufactured under IATF 16949 quality system
- RoHS and REACH Compliant

APPLICATIONS

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

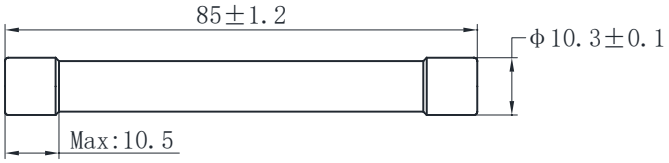
PART NUMBERING SYSTEM

A85 2320 b 00 LB

- LB: Complement or.blank logo type：For line terminals only LB:label LS:laser
- 00: Supplementary Code: 00: Cylindrical, 01: 10/12 AWG In-terminal, 02: 8 AWG In-terminal, 05: 8,10/12AWG In-Line.
- b: Way to install: See Table 2
- 2320: Ampere Code:See Table 2
- A85: Product Series: A85

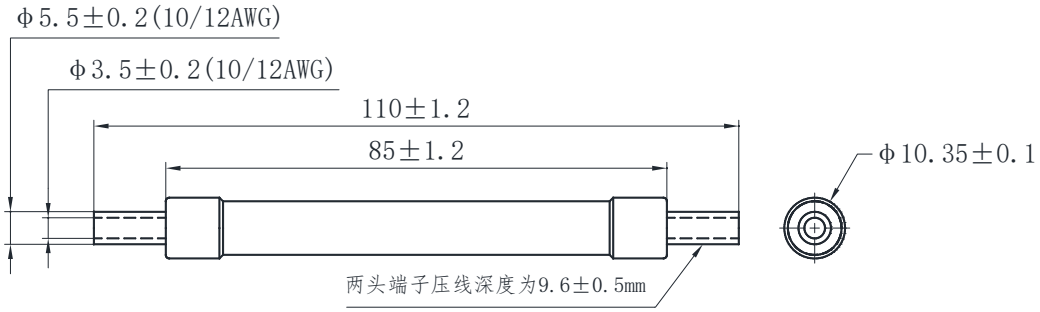
DIMENSIONS (mm)

A85xxxxb00



A85xxxxE01LB

A85xxxxE01LS



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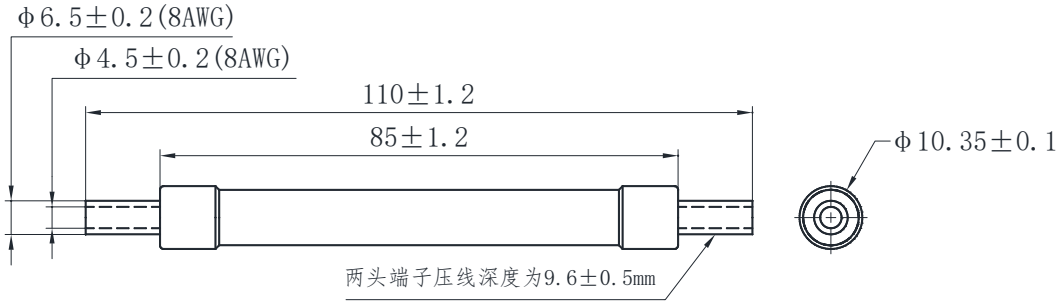
A85xxxxE02LS



A85xxxxE05LB

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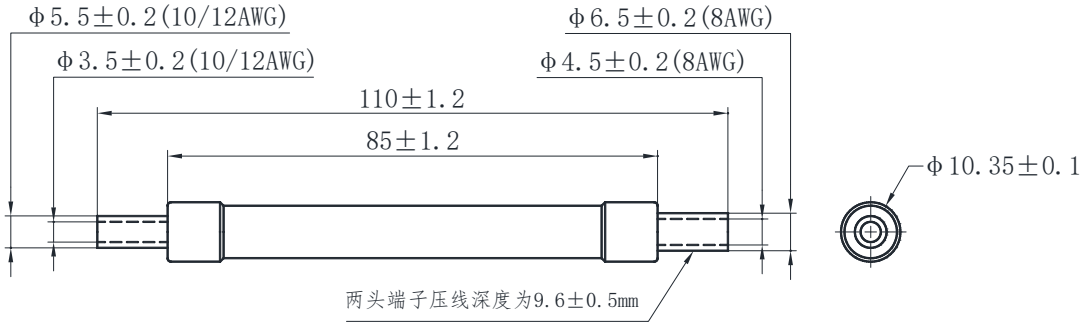


Table1

Packing information

Fuse Size	Box specifications (mm)	Packing quantity / per container	Weight / PCS (g)	Mounting Method
A85xxxxb00	410×215×160	792pcs	12.5±3%	BH300-BH301
A85xxxxE01LB A85xxxxE01LS	410×215×160	396pcs	17±3%	10/12 AWG
A85xxxxE02LB A85xxxxE02LS	410×215×160	396pcs	17.8±3%	8 AWG
A85xxxxE05LB A85xxxxE05LS	410×215×160	396pcs	18.3±3%	8/10/12AWG

Table 2

ELECTRICAL SPECIFICATIONS

Part Number				Rated Current	Ampere Code	Breaking Capacity	I²t (A²s)		Dissipation(W)		Certifications	
Cylindrical	10/12 AWG In-terminal	8 AWG In-terminal	8,10/12 AWG In-terminal				Pre-Arcing	Total	0.8 I_n	1.0 I_n	UL	TUV
A851100b00	A851100E01LB	A851100E02LB	A851100E05LB	1 A	1100	30 kA@ 1500 Vdc	59.15	125	0.8	1.6	•	•
A851200b00	A851200E01LB	A851200E02LB	A851200E05LB	2 A	1200		118.3	250	1.4	2.2	•	•
A851300b00	A851300E01LB	A851300E02LB	A851300E05LB	3 A	1300		177.5	375	1.7	2.5	•	•
A851400b00	A851400E01LB	A851400E02LB	A851400E05LB	4 A	1400		236.7	500	2.0	3.0	•	•
A851500b00	A851500E01LB	A851500E02LB	A851500E05LB	5 A	1500		295.8	625	2.8	3.5	•	•
A851600b00	A851600E01LB	A851600E02LB	A851600E05LB	6 A	1600		355.0	750	3.0	4.0	•	•
A851800b00	A851800E01LB	A851800E02LB	A851800E05LB	8 A	1800		473.3	1000	3.0	4.0	•	•
A852100b00	A852100E01LB	A852100E02LB	A852100E05LB	10 A	2100		591.7	1250	2.8	3.5	•	•
A852120b00	A852120E01LB	A852120E02LB	A852120E05LB	12 A	2120		710.0	1500	3.1	4.5	•	•
A852150b00	A852150E01LB	A852150E02LB	A852150E05LB	15 A	2150		887.5	1875	2.8	3.5	•	•
A852160b00	A852160E01LB	A852160E02LB	A852160E05LB	16 A	2160		946.4	2000	3.1	4.5	•	•
A852200b00	A852200E01LB	A852200E02LB	A852200E05LB	20 A	2200		710.0	1500	3.2	5.8	•	•
A852250b00	A852250E01LB	A852250E02LB	A852250E05LB	25 A	2250		887.5	1875	3.3	6.0	•	•
A852300b00	A852300E01LB	A852300E02LB	A852300E05LB	30 A	2300		1183.3	2500	3.6	6.8	•	•
A852320b00	A852320E01LB	A852320E02LB	A852320E05LB	32 A	2320		1760	3150	4.5	7.0	•	•

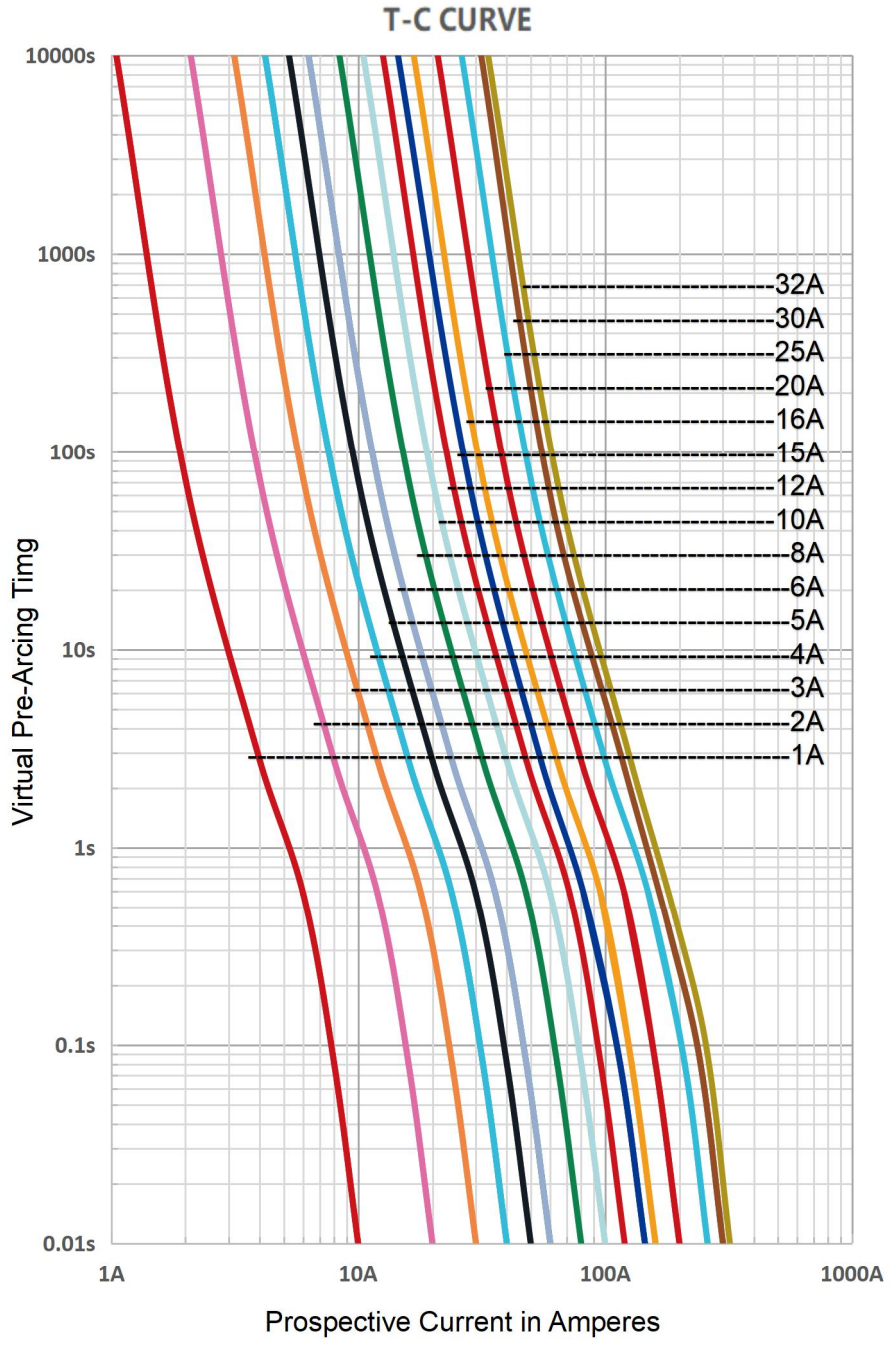
Part Number			Rated Current	Ampere Code	Breaking Capacity	I²t (A²s)		Dissipation(W)		Certifications	
10/12 AWG In-terminal	8 AWG In-terminal	8,10/12 AWG In-terminal				Pre-Arcing	Total	0.8 I_n	1.0 I_n	UL	TUV
A851100E01LS	A851100E02LS	A851100E05LS	1 A	1100	30 kA@ 1500 Vdc	59.15	125	0.8	1.6	•	•
A851200E01LS	A851200E02LS	A851200E05LS	2 A	1200		118.3	250	1.4	2.2	•	•
A851300E01LS	A851300E02LS	A851300E05LS	3 A	1300		177.5	375	1.7	2.5	•	•
A851400E01LS	A851400E02LS	A851400E05LS	4 A	1400		236.7	500	2.0	3.0	•	•
A851500E01LS	A851500E02LS	A851500E05LS	5 A	1500		295.8	625	2.8	3.5	•	•
A851600E01LS	A851600E02LS	A851600E05LS	6 A	1600		355.0	750	3.0	4.0	•	•
A851800E01LS	A851800E02LS	A851800E05LS	8 A	1800		473.3	1000	3.0	4.0	•	•
A852100E01LS	A852100E02LS	A852100E05LS	10 A	2100		591.7	1250	2.8	3.5	•	•
A852120E01LS	A852120E02LS	A852120E05LS	12 A	2120		710.0	1500	3.1	4.5	•	•
A852150E01LS	A852150E02LS	A852150E05LS	15 A	2150		887.5	1875	2.8	3.5	•	•
A852160E01LS	A852160E02LS	A852160E05LS	16 A	2160		946.4	2000	3.1	4.5	•	•
A852200E01LS	A852200E02LS	A852200E05LS	20 A	2200		710.0	1500	3.2	5.8	•	•
A852250E01LS	A852250E02LS	A852250E05LS	25 A	2250		887.5	1875	3.3	6.0	•	•
A852300E01LS	A852300E02LS	A852300E05LS	30 A	2300		1183.3	2500	3.6	6.8	•	•
A852320E01LS	A852320E02LS	A852320E05LS	32 A	2320		1760	3150	4.5	7.0	•	•

Table 3

TIME VS CURRENT CHARACTERISTIC

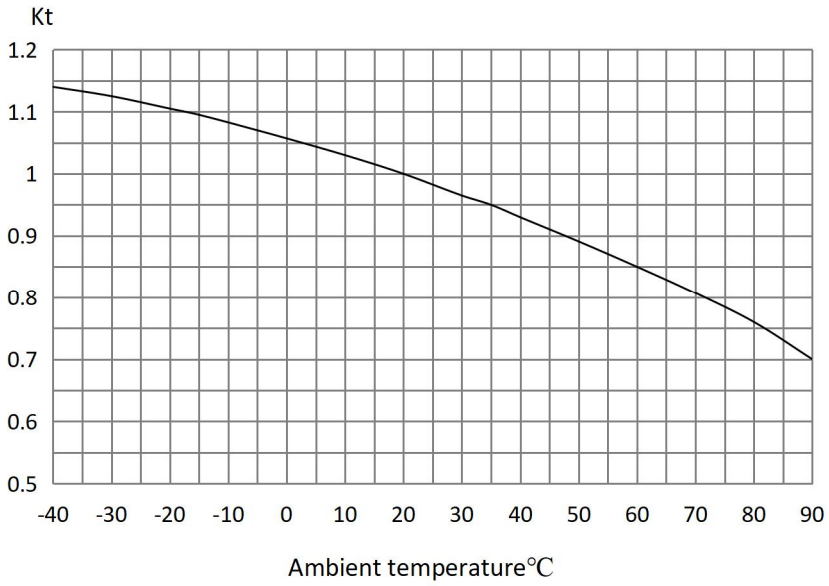
Standard	UL			IEC		
Rated Current	100 %	135 %	200 %	100 %	105 %	135 %
1-30A	Temperature Stabilization	<1 h	<4 min	Temperature Stabilization	>1 h	<2 h
32A	Temperature Stabilization	<1 h	<6 min	Temperature Stabilization	>1 h	<2 h

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.