



AX8 1500Vdc gPV FUSE



FEATURES

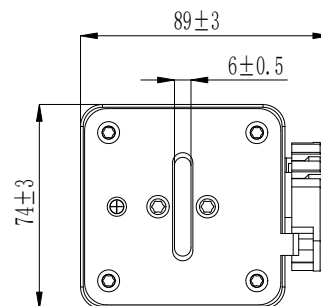
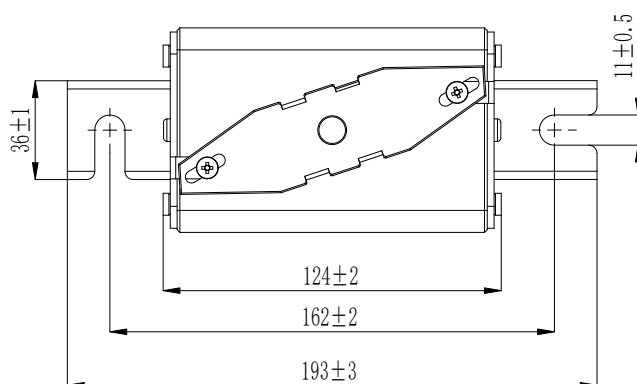
- Reliable clearing of DC fault currents
- High cycling performance
- Low watt losses
- Ultra-compact size and power density
- High breaking capacity to 50kA
- Operation as low as 200% I_n overload protection
- Full coverage of battery module current
- QR code marks on each fuse for traceability
- AX8 series PN in this datasheet is without microswitch.
- Optional microswitch available PN: MS0003

APPLICATIONS

- Inverter Protection
- Power storage protection

DIMENSIONS (mm)

AX83xxxDB3



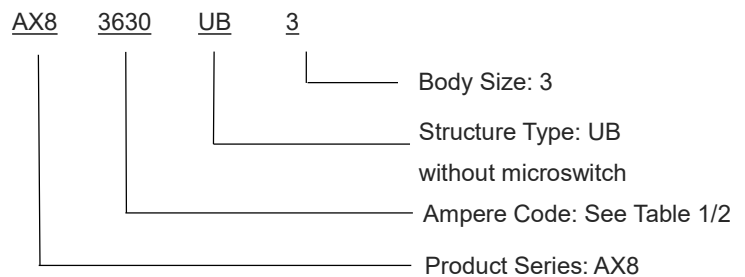
DESCRIPTION

Adler AX8 series gPV fuses are specially engineered and tested to provide best-in-class protection performance in protecting photovoltaic strings or arrays, photovoltaic inverters and other devices. Up to 1500 Vdc in ratings from 450A to 630A.

AGENCY INFORMATION

- Designed to IEC60269-6, UL248-19
- Manufactured under IATF 16949 quality system
- RoHS and REACH Compliant

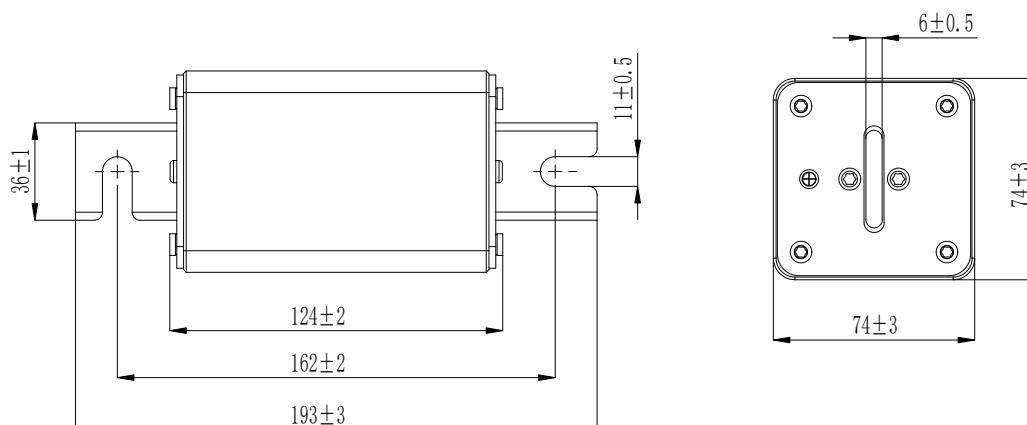
PART NUMBERING SYSTEM



1.Recommended Screw: M10

2.Recommended tightening torque (N • m):21±1

AX83xxxDC3



1.Recommended Screw: M10

2.Recommended tightening torque (N • m): 21 ± 1

ELECTRICAL SPECIFICATIONS

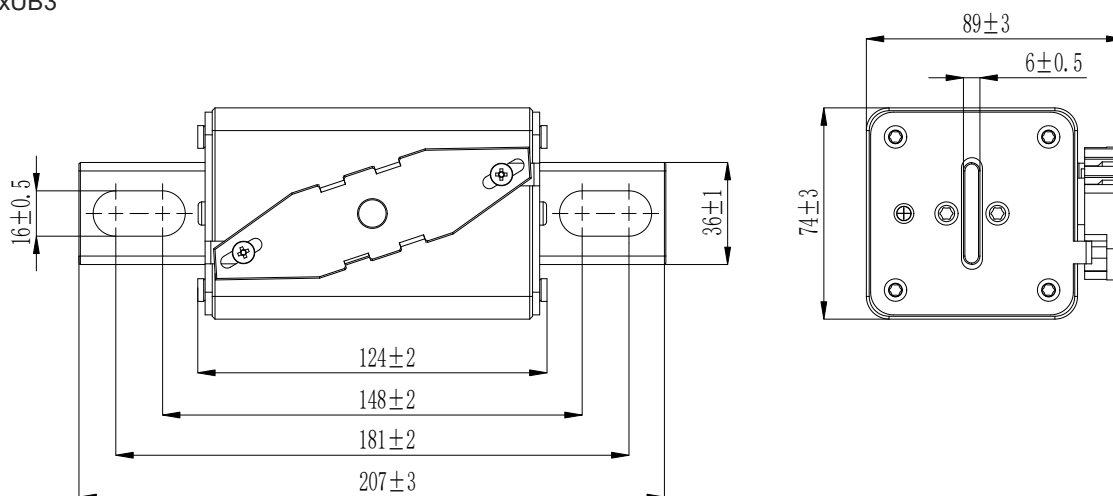
Size	Part Number		Rated Current	Ampere Code	Rated Voltage	Breaking Capacity	Pre-arcing I^2t	Clearing I^2t	Watt Loss (W)
	Indicator	No Indicator				Self-Certified	($A^2 s$)	($A^2 s$)	$1.0I_n$
3	AX83450DB3	AX83450DC3	450A	3450	1500Vdc	50kA	212000	530000	80
	AX83500DB3	AX83500DC3	500A	3500	1500Vdc	50kA	286000	716000	90
	AX83550DB3	AX83550DC3	550A	3550	1500Vdc	50kA	387200	968000	95
	AX83630DB3	AX83630DC3	630A	3630	1500Vdc	50kA	557000	1392500	105

Table 1

1. Time constant: 1~3ms

2. TUV File: 50593561 / UL File: E490190

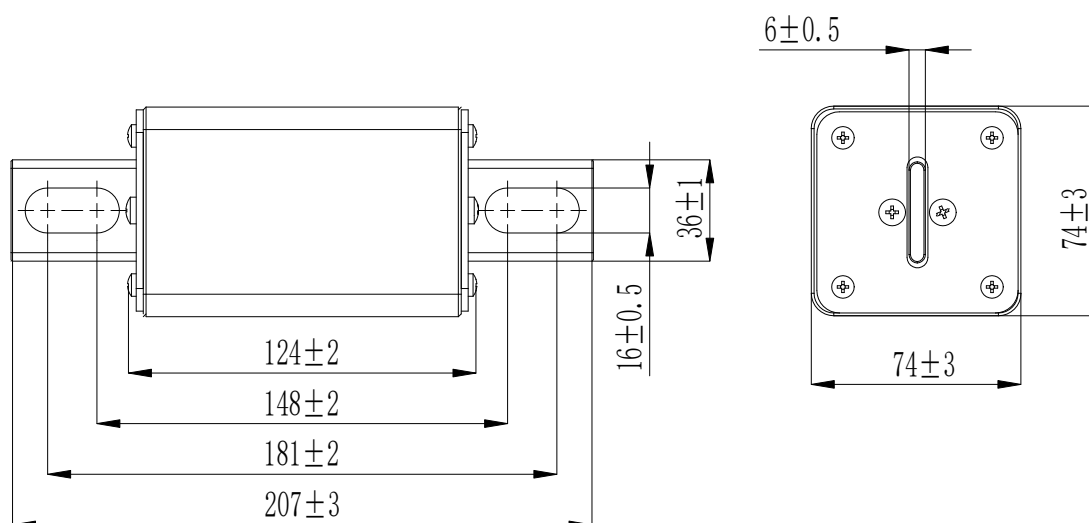
AX83xxxUB3



1.Recommended Screw: M14

2.Recommended tightening torque (N • m): 56 ± 1

AX83xxxUC3



1.Recommended Screw: M14

2.Recommended tightening torque (N·m): 56 ± 1

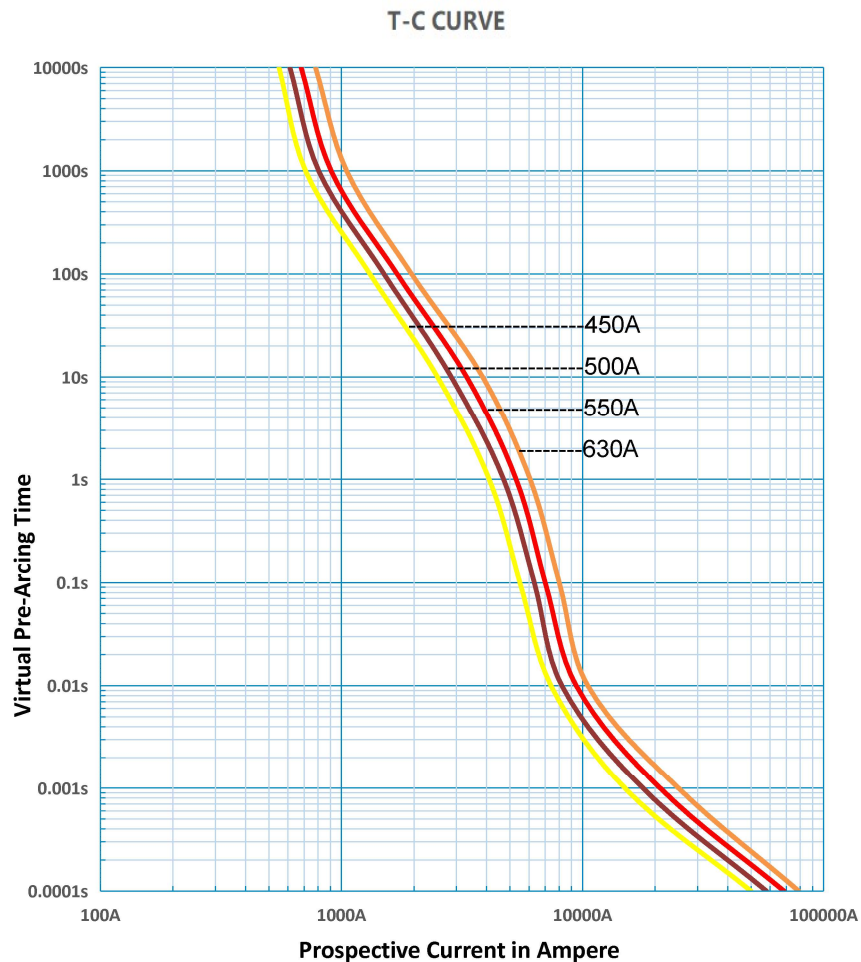
ELECTRICAL SPECIFICATIONS

Size	Part Number		Rated Current	Ampere Code	Rated Voltage	Breaking Capacity	Pre-arcing I^2t	Clearing I^2t	Watt Loss (W)
	Indicator	No Indicator				Self-Certified	(A ² s)	(A ² s)	1.0I _n
3	AX83450UB3	AX83450UC3	450A	3450	1500Vdc	50kA	212000	530000	80
	AX83500UB3	AX83500UC3	500A	3500	1500Vdc	50kA	286000	716000	90
	AX83550UB3	AX83550UC3	550A	3550	1500Vdc	50kA	387200	968000	95
	AX83630UB3	AX83630UC3	630A	3630	1500Vdc	50kA	557000	1392500	105

Table 2

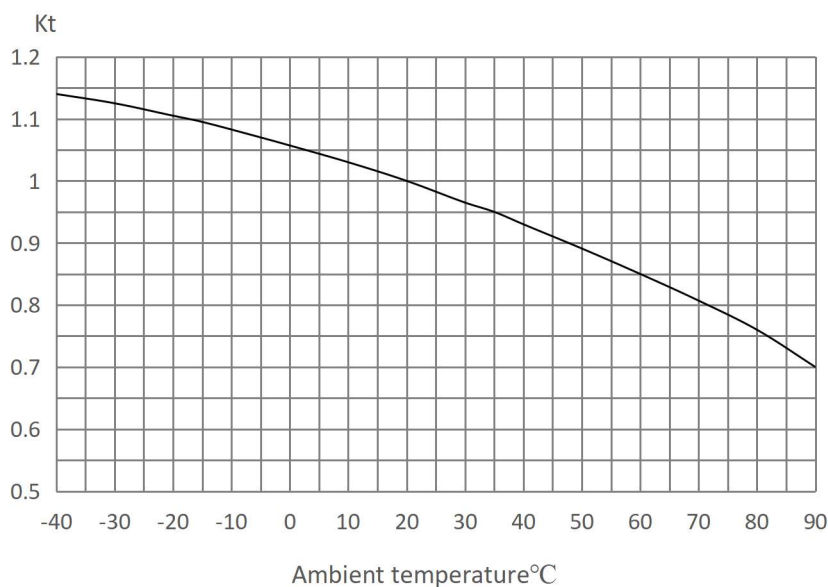
1. Time constant: 1~3ms
2. TUV File: 50593561 / UL File: E490190

TIME CURRENT CURVE



TEMPERATURE CORRECTION CURVE

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



OPERATION CONDITIONS

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

- Normal temperature: $-5^{\circ}\text{C} \sim 40^{\circ}\text{C}$, permissible operating temperature: $-40^{\circ}\text{C} \sim 120^{\circ}\text{C}$.
- 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 it's relative humidity does not exceed 50% at the maximum temperature of 40°C .
- Higher relative humidity is permitted at lower temperatures, e.g. 90% at 20°C .
- Under these conditions, moderate condensation may occasionally occur due to variation in temperatures.
- For operating conditions other than detailed above, please contact manufacturer.

STORAGE

- During transportation and storage, avoid water seepage and mechanical damage.

WEB RESOURCES

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