

AE3 EV FUSE



FEATURES:

- 850 Vdc automotive fuse
- Rated Current: 5-50 A
- Max. BC: 20 kA@850 Vdc
- Min. BC: 2In@850 Vdc
- Time Constant: 2 ± 0.5 ms
- Dimensions: 10x38 mm
- General purpose fuse for EV/HEV auxiliary protection
- Recommended fuse holder: BH114

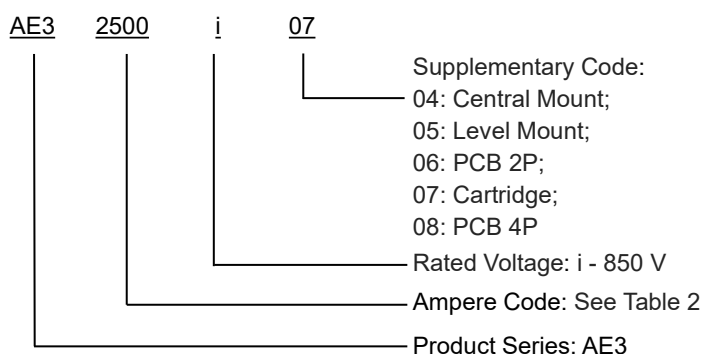
DESCRIPTION

Adler AE3 series EV fuses are specially engineered and tested to provide best-in-class protection performance in protecting high power battery charging and managing systems of Electrical Vehicles and Hybrid Electrical Vehicles, up to 850 Vdc In ratings from 5A to 50A.

AGENCY INFORMATION:

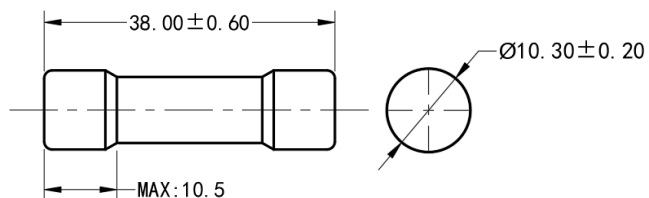
- Approvals: UL (file: E506668)
- Ref. to UL248-20, ISO 8820-8, JASO D622, GB/T 31465.6
- Manufactured under IATF 16949 quality system
- RoHS and REACH Compliant

PART NUMBERING SYSTEM

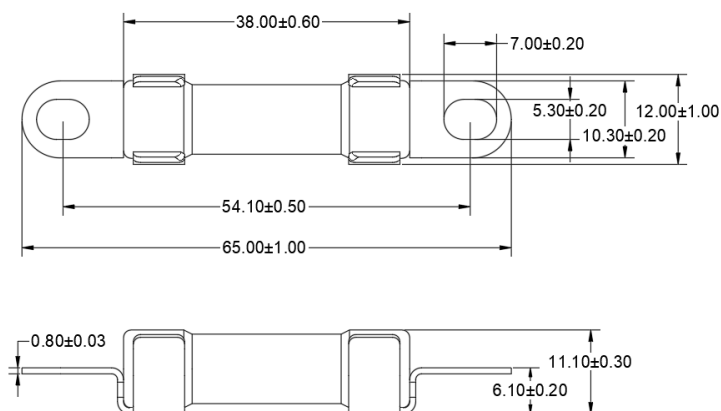


DIMENSIONS (mm)

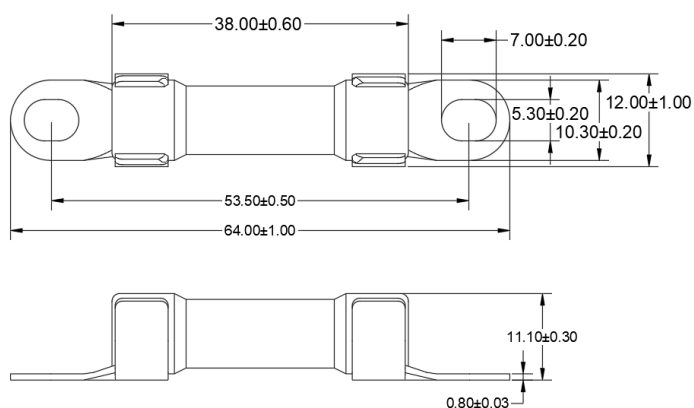
AE3xxxxi07



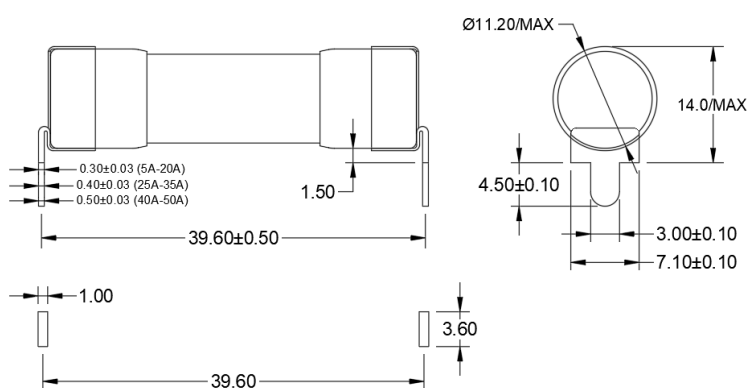
AE3xxxxi04



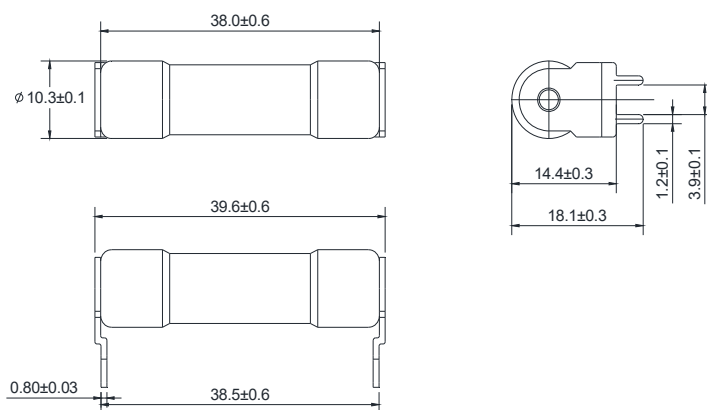
AE3xxxxi05



AE3xxxxi06



AE3xxxxi08



PACKING INFORMATION

Fuse Size	Box specifications (mm)	Packing quantity / per container	Weight / PCS (g)	Mounting Method	mounting requirements
AE32100i07	410×215×160	1200pcs	7.6±3%	-	-
AE32100i04	410×215×160	720pcs	11.5±3%	M5	4.5±1
AE32100i05	410×215×160	720pcs	11.5±3%	M5	4.5±1
AE32100i06	410×215×160	1200pcs	8.6±3%	-	-
AE32100i08	410×215×160	720pcs	9.1±3%	-	-

Table1

ELECTRICAL SPECIFICATIONS

Part Number / Configurations					Rated Current	Ampere Code	Rated Voltage	Breaking Capacity	I ² t (A ² s)		Dissipation (1.0In W)	Certifications UL
Cylindrical	Central Mount	Level Mount	PCB 2P	PCB 4P					Pre-Arcing	Total		
AE31500i07	AE31500i04	AE31500i05	AE31500i06	AE31500i08	5A	1500	850 Vdc	20 kA @850 Vdc	105	182	2.2	•
AE31800i07	AE31800i04	AE31800i05	AE31800i06	AE31800i08	8A	1800			135	220	2.5	•
AE32100i07	AE32100i04	AE32100i05	AE32100i06	AE32100i08	10A	2100			160	255	3	•
AE32150i07	AE32150i04	AE32150i05	AE32150i06	AE32150i08	15A	2150			370	620	2.5	•
AE32200i07	AE32200i04	AE32200i05	AE32200i06	AE32200i08	20A	2200			820	1360	3.5	•
AE32250i07	AE32250i04	AE32250i05	AE32250i06	AE32250i08	25A	2250			1060	1505	3.5	•
AE32300i07	AE32300i04	AE32300i05	AE32300i06	AE32300i08	30A	2300			1270	2190	4.7	•
AE32350i07	AE32350i04	AE32350i05	AE32350i06	AE32350i08	35A	2350			1745	2936	4.8	•
AE32400i07	AE32400i04	AE32400i05	AE32400i06	AE32400i08	40A	2400			1980	3688	5.5	•
AE32450i07	AE32450i04	AE32450i05	AE32450i06	AE32450i08	45A	2450			2200	5219	5.8	•
AE32500i07	AE32500i04	AE32500i05	AE32500i06	AE32500i08	50A	2500			3010	6750	6.8	•

Note: Operational Temperature Range: -40°C to 120°C

TIME VS CURRENT CHARACTERISTIC

Rated Current	110%	135%	150%	200%	300%	500%
5-50 A	>4 h	150 s - 1h	10-1000 s	0.5-100 s	0.1-15 s	0.05-1 s

OPERATING CONDITIONS

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

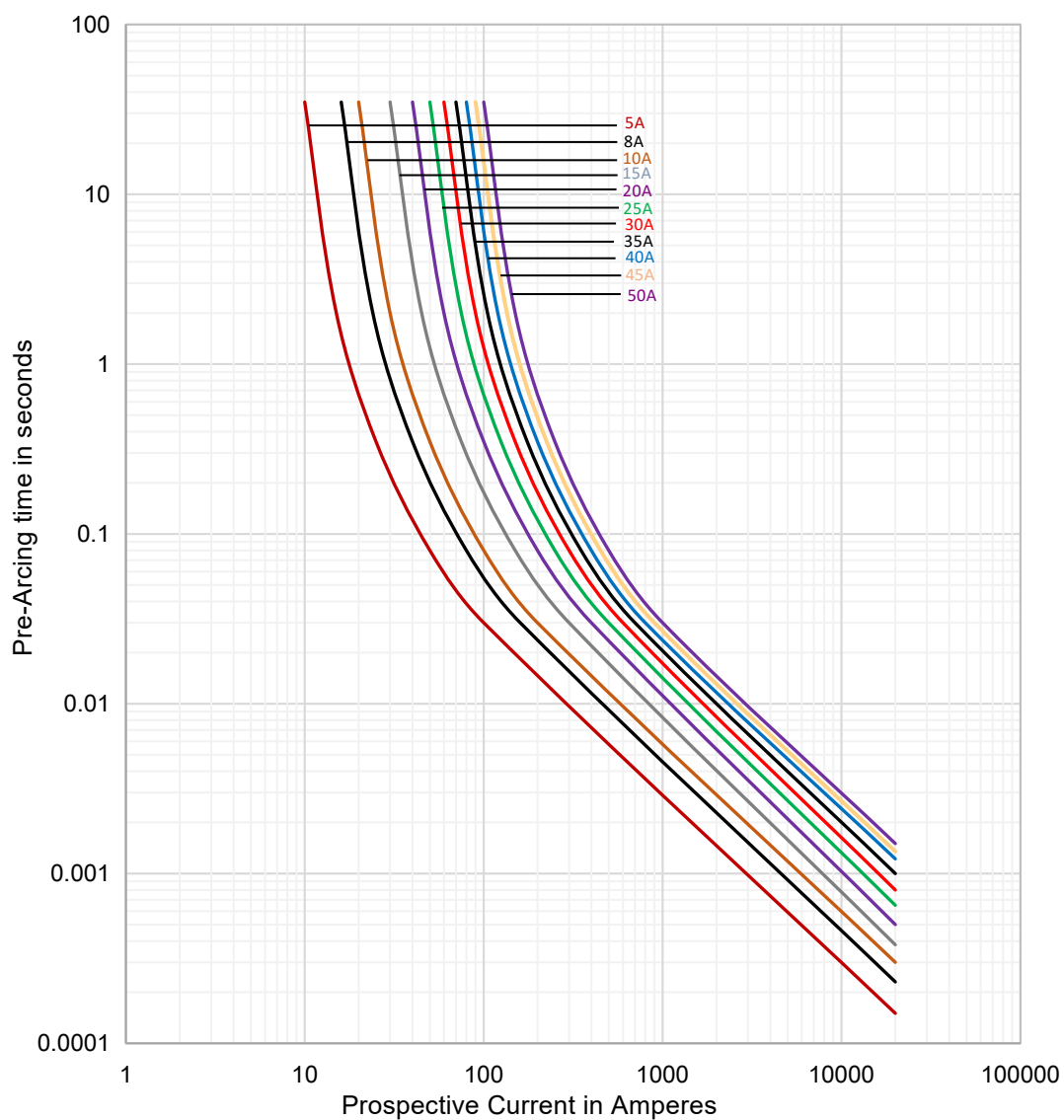
- Normal temperature: -5°C-40°C, permissible operating temperature: -40°C-120°C;
- The altitude of the normal site of installation of the fuses does not exceed 2000m and permissible altitude site of installation does not exceed 5000m;
- The air is clean and its relative humidity does not exceed 50 % at the maximum temperature of 40°C;
- Higher relative humidity is permitted at lower temperatures, e.g., 90 % at 20°C;
- Pollution grade III
- Under these conditions, moderate condensation may occasionally occur due to variation in temperature.
- For operating conditions other than above, please contact manufacturer.

STORAGE

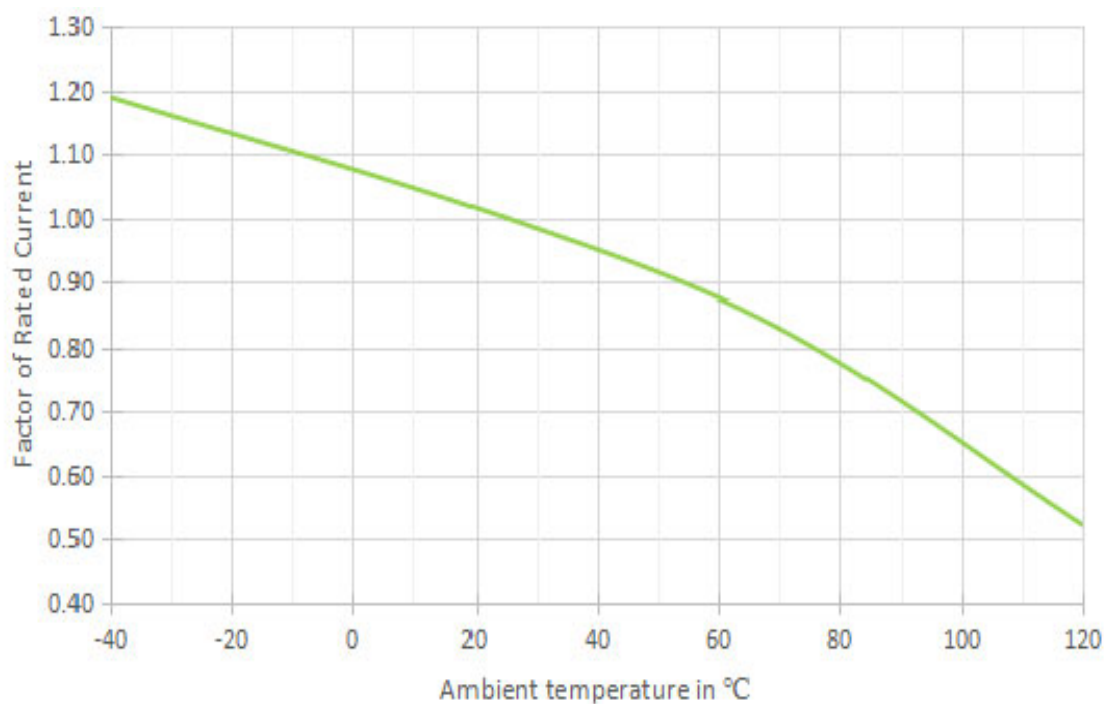
During transportation and storage, avoid water seepage and mechanical damage.



TIME CURRENT CURVE



TEMPERATURE DERATING CURVE



WEB RESOURCES

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