AE4 EV Fuse

DESCRIPTION

Adler AE4 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 200 Vdc/275 Vac in ratings from 10 A to 63 A.

AGENCY INFORMATION

- Designed to JASO D622, ISO 8820-8, UL248-20,
- Comply to IEC60269-7, UL248-13, GB/T 13539-4
- IATF 16949 quality system
- RoHS and REACH Compliant

FEATURES:

- 200V dc / 275 Vac automotive fuse
- Rated Current: 10-63 A
- Rated Breaking Capacity: 10 kA@200 Vdc
  20 kA@275 Vac
  (10-40A Self - Certified 40 kA@305 Vac)
  (63A 50 kA@250 Vac)
- Time Constant: 2±0.5 ms
- Dimensions: 10x26 mm
- General purpose fuse for EV/HEV auxiliary protection,
- Ref. To: UL248-20; ISO 8820-8; GB/T 31465.6； QC/T 1174

APPICATIONS

- Battery Charging Protection
- BMS Protection

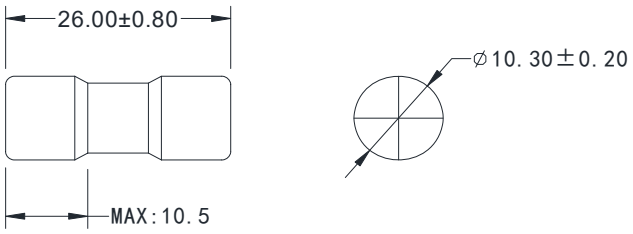
PART NUMBERING SYSTEM

AE4 2630 6 00

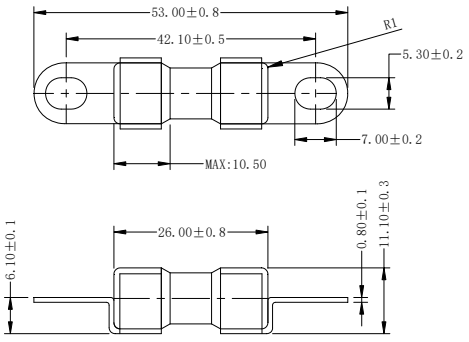
- 00 — Supplementary Code:00: Cartridge; 01: Central Mount; 03: PCB Mount; 05: Level Mount
- 6 — Rated Voltage: 6 - 200 V
- 2630 — Ampere Code: See Table 2
- AE4 — Product Series: AE4

DIMENSIONS (mm)

AE4xxxx600



AE4xxxx601



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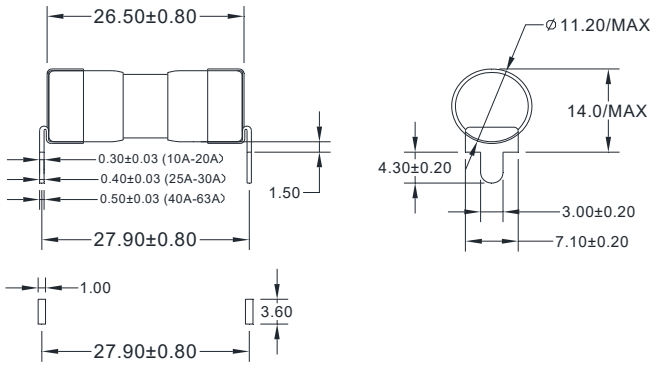
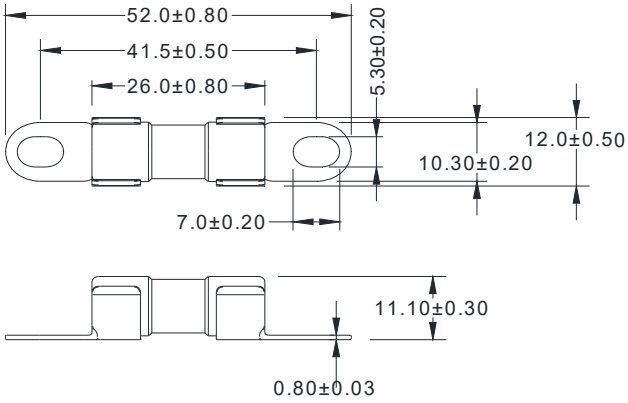


PCB mounting hole pattern

AE4xxxx605



PACKING INFORMATION

Fuse Size	Box Specifications (mm)	Packing Quantity / Per Container	Weight / PCS (g)	Mounting Method	Mounting Requirements
AE4xxxx600	410×215×160	1920 pcs	6.3±3%	-	-
AE4xxxx601	410×215×160	720 pcs	10.5±3%	M5	4.5±1
AE4xxxx603	410×215×160	1200 pcs	7.3±3%	-	-
AE4xxxx605	410×215×160	720 pcs	10.5±3%	M5	4.5±1

Table 1

ELECTRICAL SPECIFICATIONS

Part Number				Rated Current	Ampere Code	Breaking Capacity	Certifications
Cartridge	Central Mount	PCB Mount	Level Mount				UL
AE42100600	AE42100601	AE42100603	AE42100605	10 A	2100	10 kA@200 Vdc 20 kA@275 Vac （Self - Certified 40 kA@305 Vac)	•
AE42150600	AE42150601	AE42150603	AE42150605	15 A	2150		•
AE42200600	AE42200601	AE42200603	AE42200605	20 A	2200		•
AE42250600	AE42250601	AE42250603	AE42250605	25 A	2250		•
AE42300600	AE42300601	AE42300603	AE42300605	30 A	2300		•
AE42400600	AE42400601	AE42400603	AE42400605	40 A	2400		•
AE42500600	AE42500601	AE42500603	AE42500605	50 A	2500	10 kA@200 Vdc 20 kA@275 Vac	•
AE42630600	AE42630601	AE42630603	AE42630605	63 A	2630	10 kA@200 Vdc 20 kA@275 Vac 50 kA@250 Vac	•

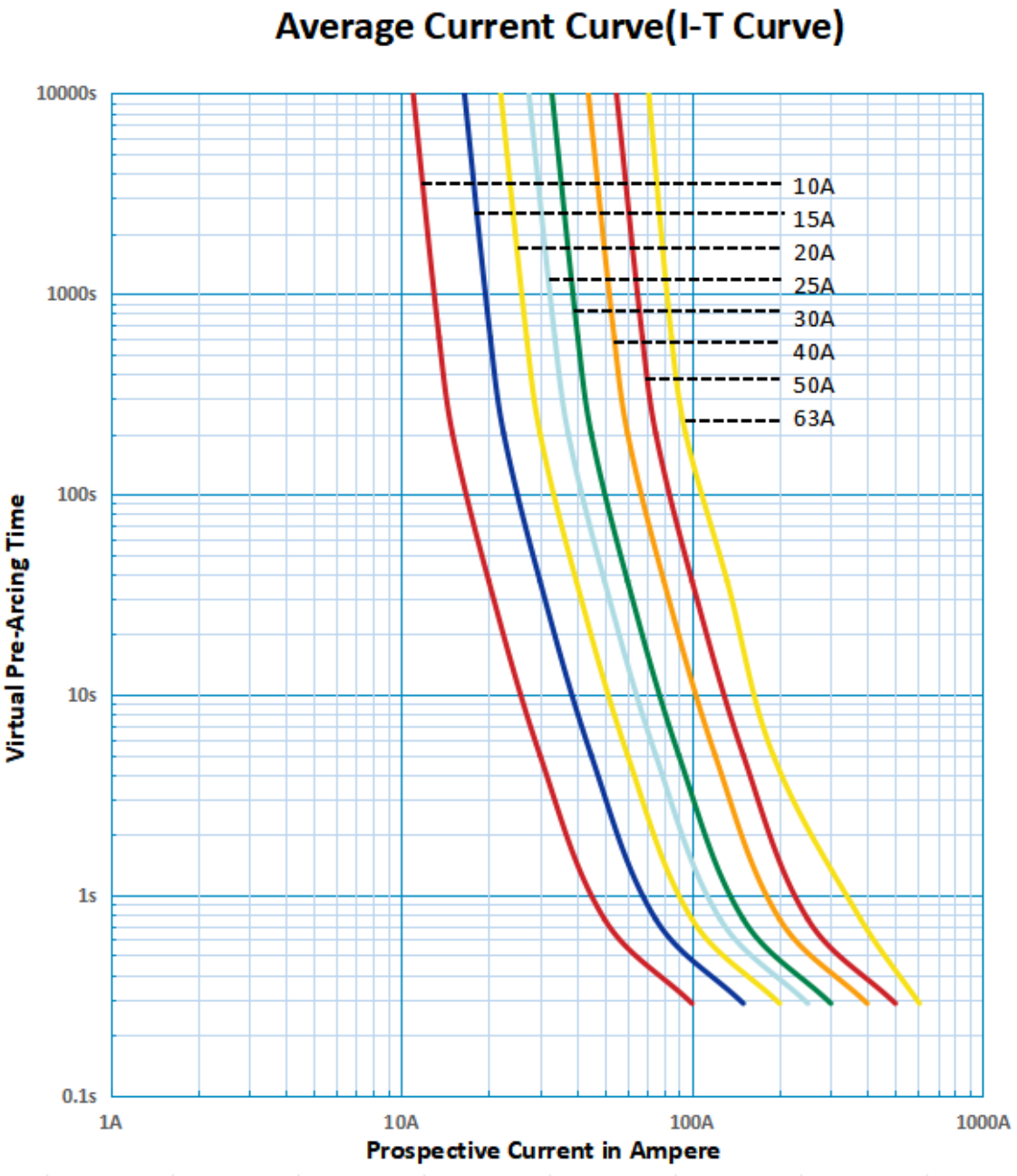
Table 2

Note：1. ●--- Certification is ready,
2. o---Certificate is pending
3. UL file：E485737
4. I^2t base on 1.0 In test

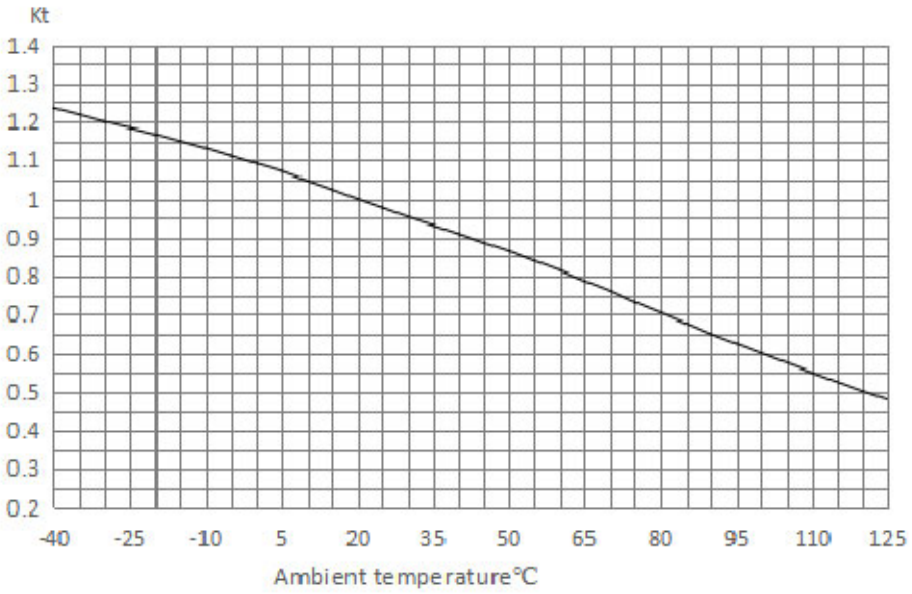
TIME VS CURRENT CHARACTERISTIC

Rated Current	110%	200%	300%	500%
10-63 A	>4 h	0.5-100 s	0.1-15 s	0.05-1 s

TIME CURRENT CURVE



TEMPERATURE DERATING CURVE



OPERATING CONDITIONS

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

- Normal temperature: -5℃ to 40℃， permissible operating temperature：-40℃ to 125℃;
- 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℃;
- Higher relative humidity is 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 than 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.