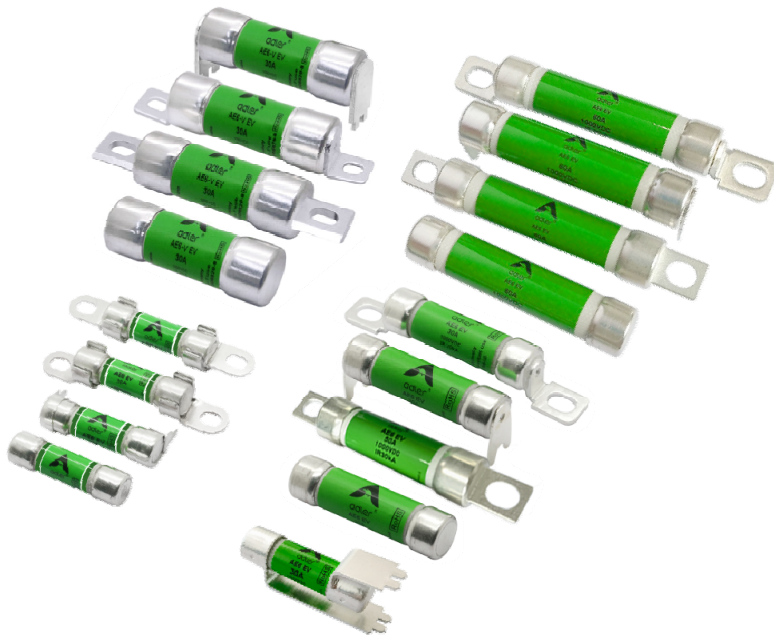


AE6 EV Fuse



FEATURES

- 1000 Vdc automotive fuse
- Rated Current: 5-30 A (10x38 mm)
20-50 A (14x51 mm)
35-60 A (14x65 mm)
10-80 A (22x65 mm)
- Max. BC: 30 kA@1000 Vdc
- Max. BC: 50 kA@1000 Vdc/800 Vac (22x65 mm)
- Min BC: 2 In@1000 Vdc
- Time Constant: 2 ± 0.5 ms
- Size: 10x38 mm, 14x51 mm, 14x65 mm, 22x65mm

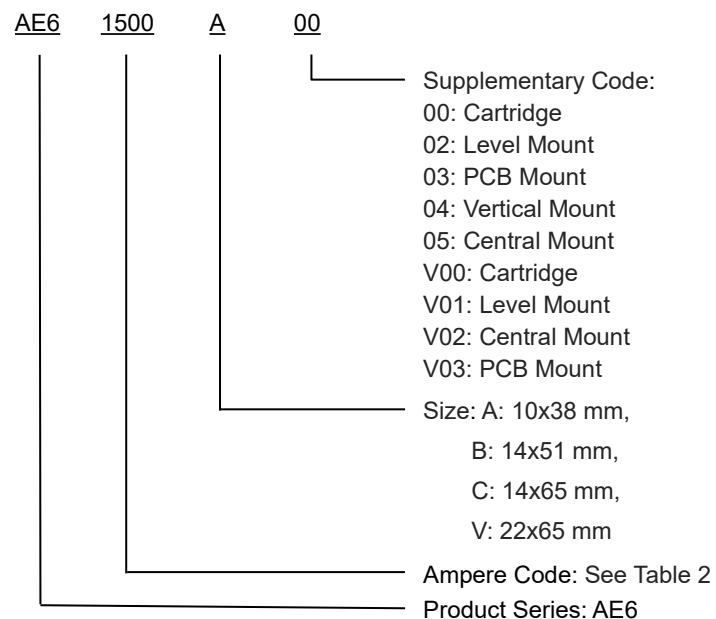
DESCRIPTION

Adler AE6 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 1000 Vdc in ratings from 5 A to 80 A.

AGENCY INFORMATION

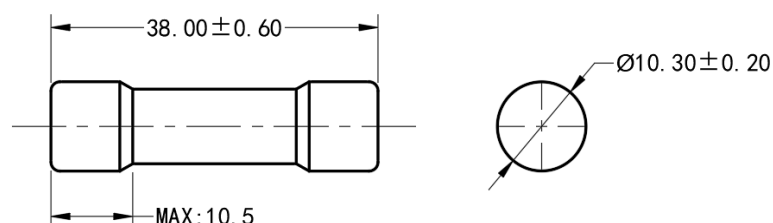
- Ref. to UL 248-20, ISO 8820-8, JASO D622, GB/T 31465.6
- Approval: TÜV and UL(10x38 mm)
- Manufactured under IATF 16949 quality system
- RoHS and REACH Compliant

PART NUMBERING SYSTEM

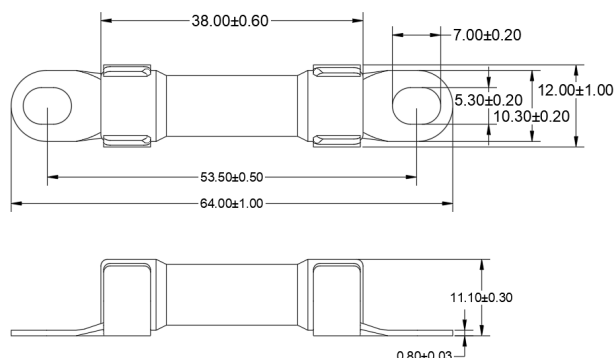


DIMENSIONS (10x38 mm)

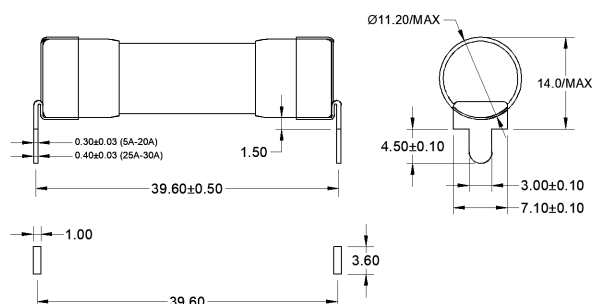
AE6xxxxA00



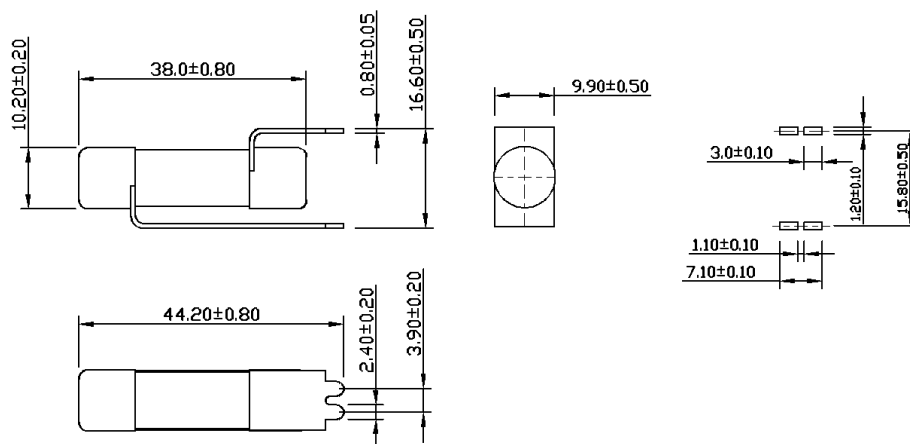
AE6xxxxA02



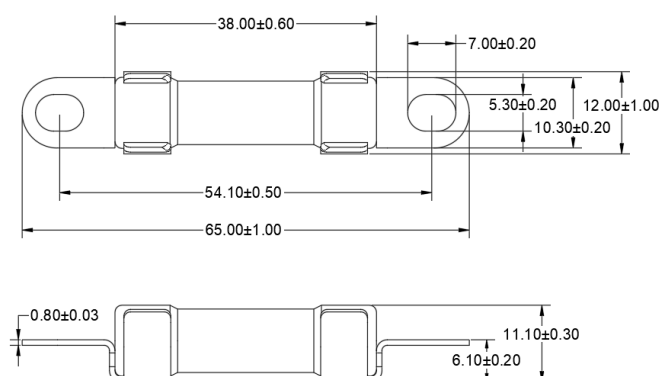
AE6xxxxA03



AE6xxxxA04

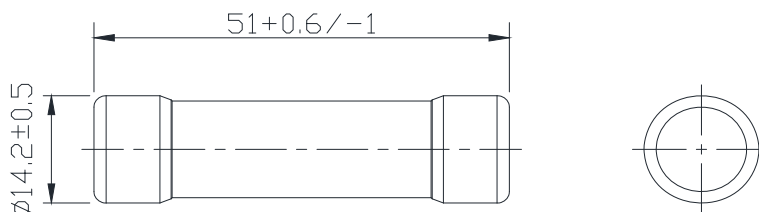


AE6xxxxA05

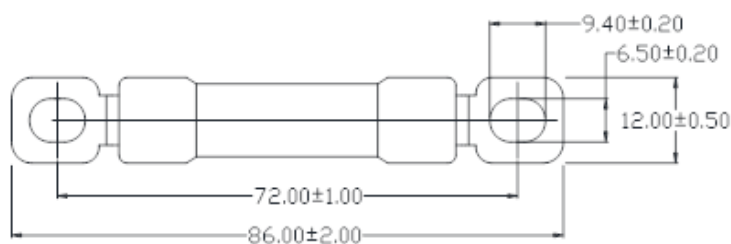


DIMENSIONS (14x51 mm)

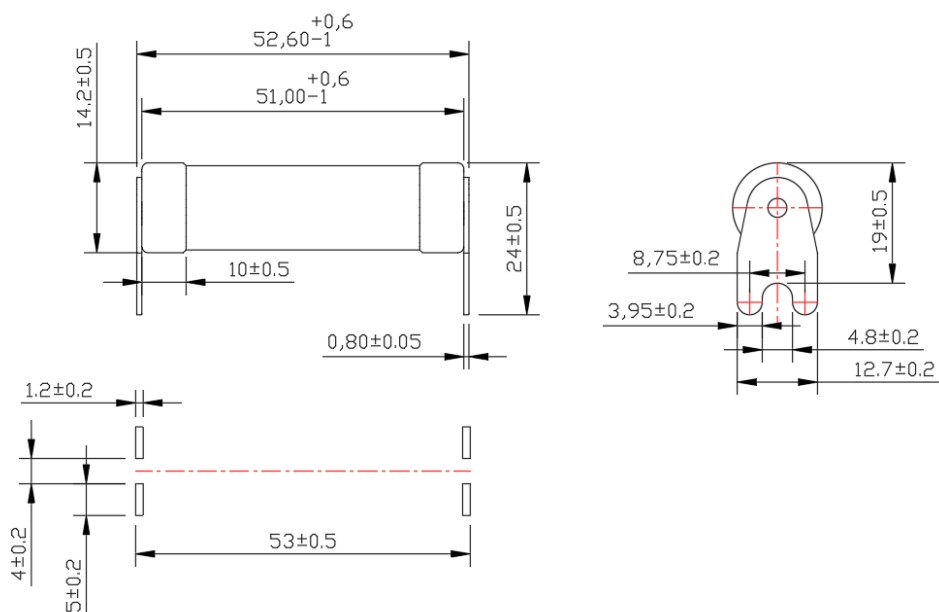
AE6xxxxB00



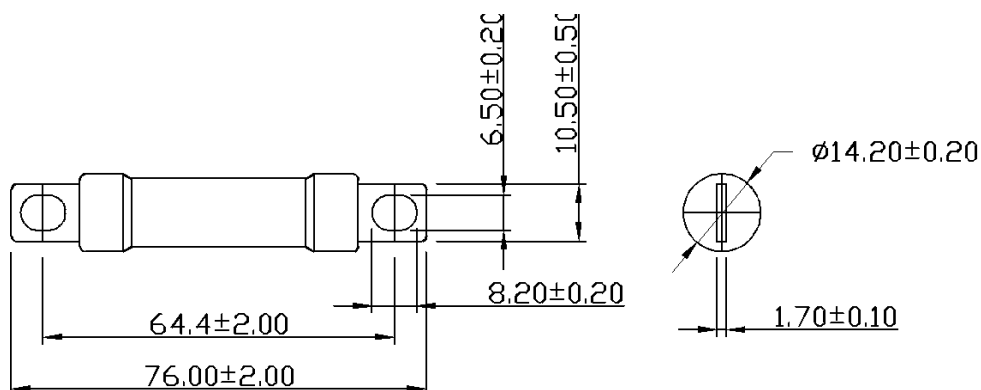
AE6xxxxB02



AE6xxxxB03

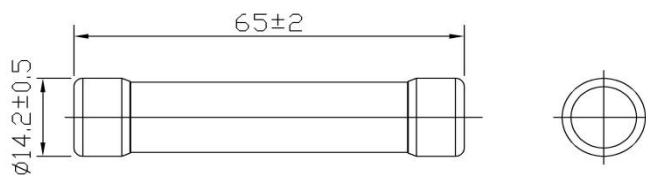


AE6xxxxB05

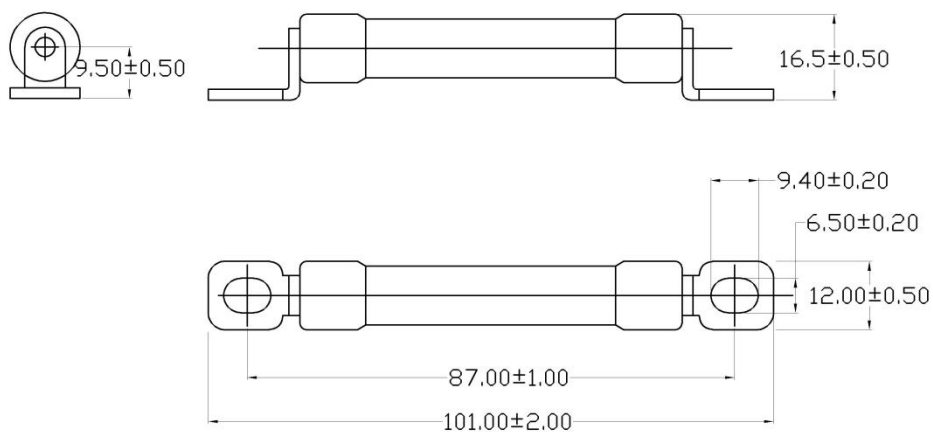


DIMENSIONS (14x65 mm)

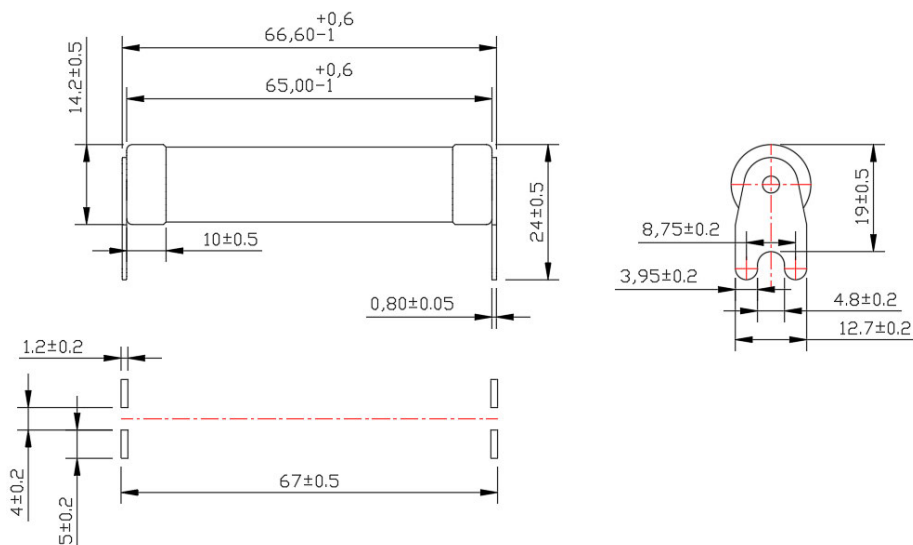
AE6xxxxC00



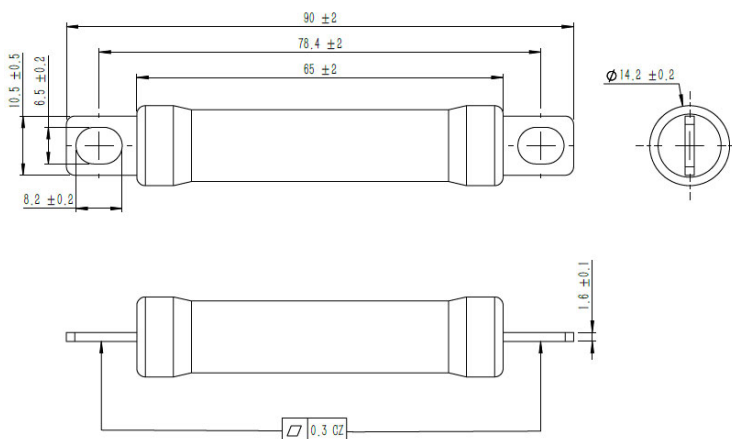
AE6xxxxC02



AE6xxxxC03

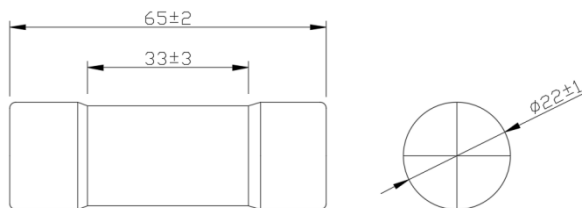


AE6xxxxC05

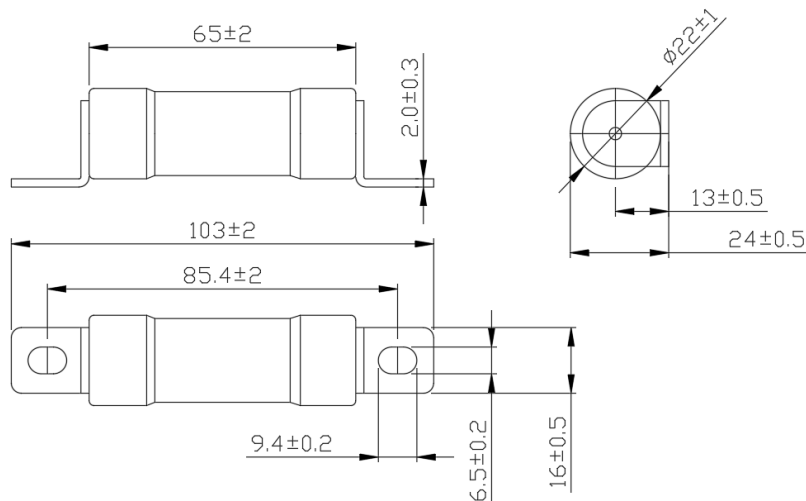


DIMENSIONS (22x65 mm)

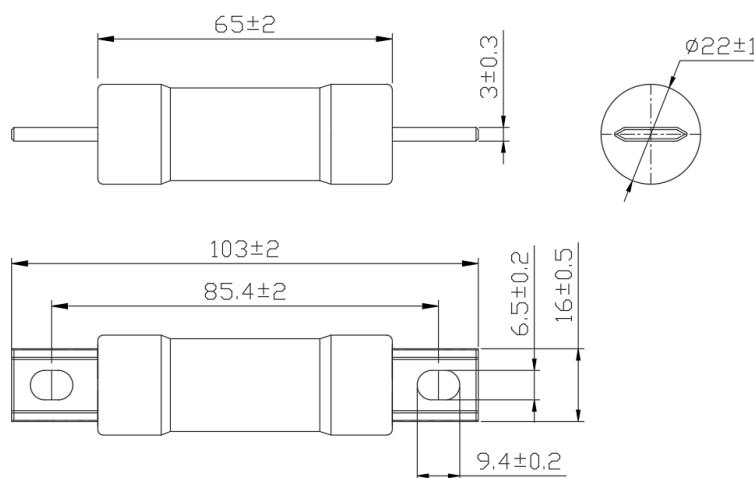
AE6xxxxV00



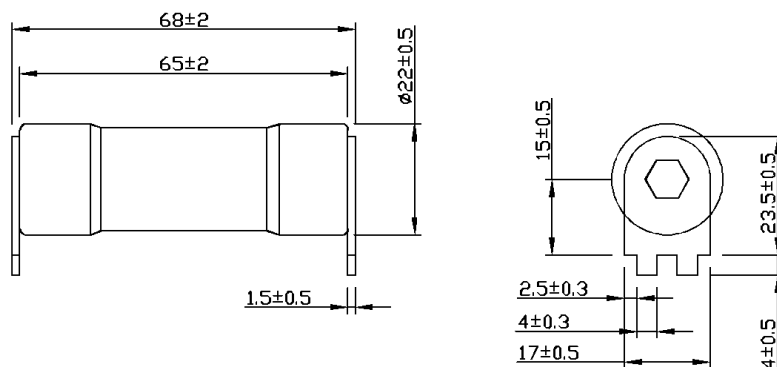
AE6xxxxV01



AE6xxxxV02



AE6xxxxV03



PACKING INFORMATION

Fuse Size	Box Specifications (mm)	Packing Quantity / Per Container	Weight / PC (g)	Mounting Method	Mounting Requirements
AE6xxxxA00	410×215×160	1200 pcs	7.6±3%	BH114	-
AE6xxxxA02	410×215×160	720 pcs	11.5±3%	M5	4.5±1
AE6xxxxA03	410×215×160	1200 pcs	8.6±3%	-	-
AE6xxxxA05	410×215×160	720 pcs	11.5±3%	M5	4.5±1
AE6xxxxA04	410×215×160	480 pcs	9.7±3%	-	-
AE6xxxxB00	410×215×160	648 pcs	16±3%	BH214	
AE6xxxxB02	410×215×160	308 pcs	15.7±3%	M6	6±1
AE6xxxxB03	410×215×160	288 pcs	22.6±3%	-	
AE6xxxxB05	410×215×160	432 pcs	24.3±3%	M6	6±1
AE6xxxxC00	410×215×160	432 pcs	18.3±3%	-	-
AE6xxxxC02	410×215×160	242 pcs	26.8±3%	M6	6±1
AE6xxxxC03	410×215×160	270 pcs	25.2±3%	-	-
AE6xxxxC05	410×215×160	378 pcs	25.3±3%	M6	6±1
AE6xxxxV00	410×215×160	112 pcs	56.1±3%	-	-
AE6xxxxV01	410×215×160	120 pcs	69.6±3%	M6	6±1
AE6xxxxV02	410×215×160	120 pcs	69.7±3%	M6	6±1
AE6xxxxV03	410×215×160	112 pcs	65.2±3%	-	-

ELECTRICAL SPECIFICATIONS

Size (mm)	Part Number				Rated Current	Ampere Code	Rated Voltage	Breaking Capacity	I ² t (A ² s)		Dissipation (W)		Certifications	
	Cartridge	Level Mount	PCB Mount	Central Mount					Pre-Arcing	Total	0.7 I _n	1.0 I _n	TÜV	UL
10x38	AE61500A00	AE61500A02	AE61500A03	AE61500A05	5 A	1500	1000 Vdc	30 kA@1000 Vdc	105	182	0.8	1.6	●	●
	AE61600A00	AE61600A02	AE61600A03	AE61600A05	6 A	1600	1000 Vdc		115	196	1.0	2.3	●	●
	AE61800A00	AE61800A02	AE61800A03	AE61800A05	8 A	1800	1000 Vdc		135	220	1.2	2.4	●	●
	AE62100A00	AE62100A02	AE62100A03	AE62100A05	10 A	2100	1000 Vdc		160	255	1.0	2.0	●	●
	AE62120A00	AE62120A02	AE62120A03	AE62120A05	12 A	2120	1000 Vdc		255	410	1.1	2.2	●	●
	AE62150A00	AE62150A02	AE62150A03	AE62150A05	15 A	2150	1000 Vdc		370	620	1.7	2.5	●	●
	AE62200A00	AE62200A02	AE62200A03	AE62200A05	20 A	2200	1000 Vdc		590	1800	1.8	3.1	●	●
	AE62250A00	AE62250A02	AE62250A03	AE62250A05	25 A	2200	1000 Vdc		770	3200	1.9	3.8	●	●
	AE62300A00	AE62300A02	AE62300A03	AE62300A05	30 A	2300	1000 Vdc		1080	5070	2.0	4.5	●	●
14x51	AE62200B00	AE62200B02	AE62200B03	AE62200B05	20 A	2200	1000 Vdc		975	2150	2.2	3.8	●	●
	AE62250B00	AE62250B02	AE62250B03	AE62250B05	25 A	2250	1000 Vdc		1240	3150	2.4	4.4	●	●
	AE62300B00	AE62300B02	AE62300B03	AE62300B05	30 A	2300	1000 Vdc		1950	4450	2.8	5.2	●	●
	AE62350B00	AE62350B02	AE62350B03	AE62350B05	35 A	2300	1000 Vdc		2700	7500	1.8	6.0	●	●
	AE62400B00	AE62400B02	AE62400B03	AE62400B05	40 A	2400	1000 Vdc		3450	10.8K	2.1	7.0	●	●
	AE62450B00	AE62450B02	AE62450B03	AE62450B05	45 A	2450	1000 Vdc		4600	14.2K	2.2	7.1	●	●
	AE62500B00	AE62500B02	AE62500B03	AE62500B05	50 A	2500	1000 Vdc		6380	17.6K	2.3	7.5	●	●
14x65	AE62350C00	AE62350C02	AE62350C03	AE62350C05	35 A	2350	1000 Vdc		2900	8.15K	2.5	6.4	●	●
	AE62400C00	AE62400C02	AE62400C03	AE62400C05	40 A	2400	1000 Vdc		5270	12.0K	2.7	7.7	●	●
	AE62450C00	AE62450C02	AE62450C03	AE62450C05	45 A	2450	1000 Vdc		7450	13.9K	2.8	7.8	●	●
	AE62500C00	AE62500C02	AE62500C03	AE62500C05	50 A	2500	1000 Vdc		9300	16.0K	2.9	7.9	●	●
	AE62600C00	AE62600C02	AE62600C03	AE62600C05	60 A	2600	1000 Vdc		12.5K	19.6K	3.0	9.0	●	●

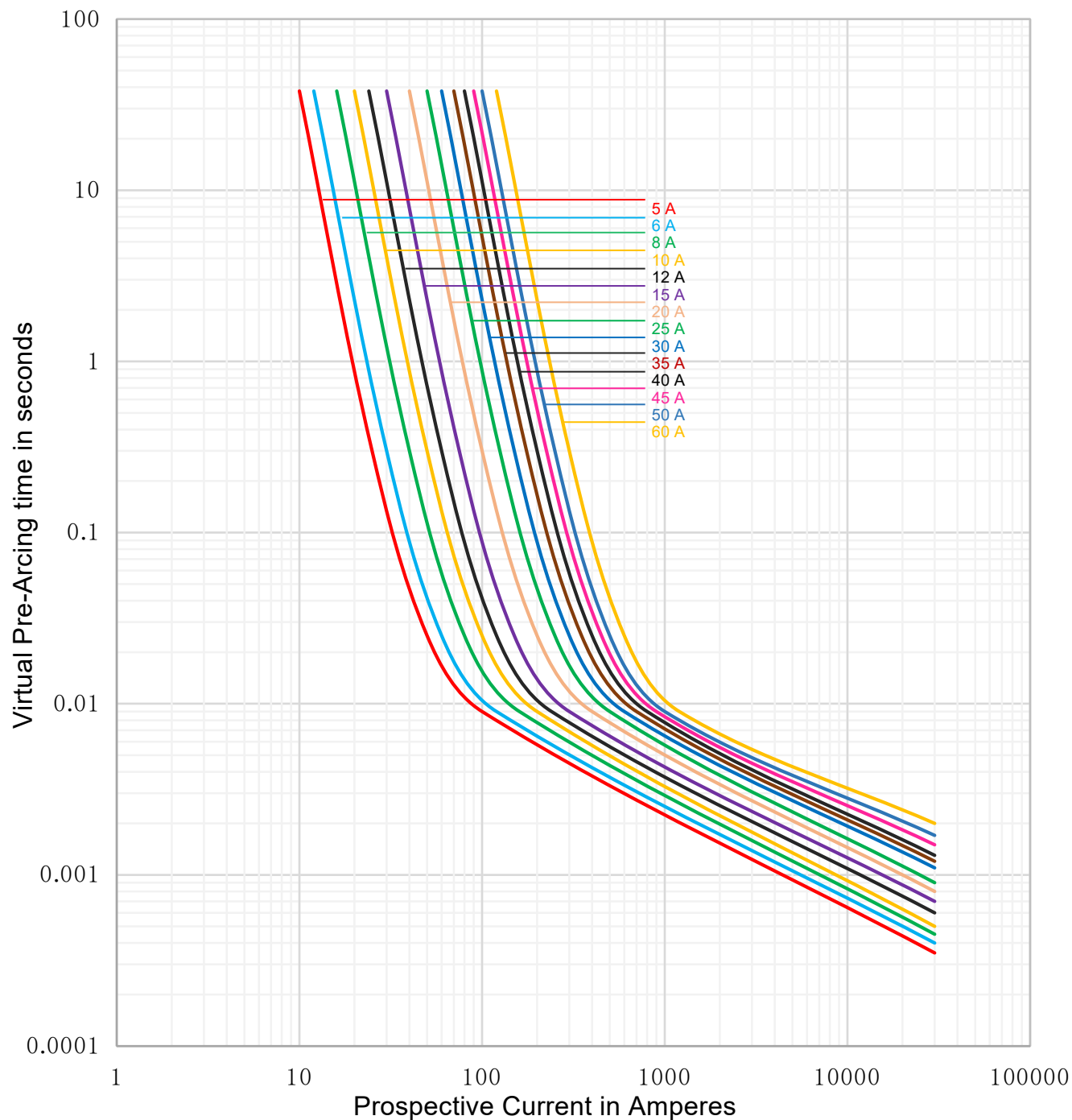
Size (mm)	Part Number	Rated Current	Ampere Code	Rated Voltage	Breaking Capacity	I ² t (A ² s)		Dissipation (W)		Certifications	
	Vertical Mount					Pre-Arcing	Total	0.7 I _n	1.0 I _n	TÜV	UL
10x38	AE61500A04	5 A	1500	1000 Vdc	30 kA@1000 Vdc	105	182	0.8	1.6	○	○
	AE61600A04	6 A	1600	1000 Vdc		115	196	1.0	2.3	○	○
	AE61800A04	8 A	1800	1000 Vdc		135	220	1.2	2.4	○	○
	AE62100A04	10 A	2100	1000 Vdc		160	255	1.0	2.0	○	○
	AE62120A04	12 A	2120	1000 Vdc		255	410	1.1	2.2	○	○
	AE62150A04	15 A	2150	1000 Vdc		370	620	1.7	2.5	○	○
	AE62200A04	20 A	2200	1000 Vdc		590	1800	1.8	3.1	○	○
	AE62250A04	25 A	2200	1000 Vdc		770	3200	1.9	3.8	○	○
	AE62300A04	30 A	2300	1000 Vdc		1080	5070	2.0	4.5	○	○

Size (mm)	Part Number				Rated Current	Ampere Code	Rated Voltage	Breaking Capacity	I ² t (A ² s)		Dissipation (W)		Certifications	
	Cartridge	Level Mount	Central Mount	PCB Mount					Pre-Arcing	Total	0.7 I _n	1.0 I _n	TÜV	UL
22x65	AE62100V00	AE62100V01	AE62100V02	AE62100V03	10 A	2100	1000 Vdc	50 kA@ 1000 Vdc /800 Vac	280	750	1.5	3.5	●	●
	AE62120V00	AE62120V01	AE62120V02	AE62120V03	12 A	2120	1000 Vdc		430	870	1.6	3.6	●	●
	AE62150V00	AE62150V01	AE62150V02	AE62150V03	15 A	2150	1000 Vdc		560	1080	1.7	3.7	●	●
	AE62200V00	AE62200V01	AE62200V02	AE62200V03	20 A	2200	1000 Vdc		990	2270	2	4.3	●	●
	AE62250V00	AE62250V01	AE62250V02	AE62250V03	25 A	2250	1000 Vdc		1250	3160	2.1	4.5	●	●
	AE62300V00	AE62300V01	AE62300V02	AE62300V03	30 A	2300	1000 Vdc		1710	4450	2.4	5.3	●	●
	AE62350V00	AE62350V01	AE62350V02	AE62350V03	35 A	2350	1000 Vdc		3210	8360	2.6	5.9	●	●
	AE62400V00	AE62400V01	AE62400V02	AE62400V03	40 A	2400	1000 Vdc		5360	12.2K	2.1	6.5	●	●
	AE62450V00	AE62450V01	AE62450V02	AE62450V03	45 A	2450	1000 Vdc		7650	14.1K	2.6	8.3	●	●
	AE62500V00	AE62500V01	AE62500V02	AE62500V03	50 A	2500	1000 Vdc		9530	16.5K	2.7	8.5	●	●
	AE62600V00	AE62600V01	AE62600V02	AE62600V03	60 A	2600	1000 Vdc		13.0K	20.8K	2	9	●	●
	AE62700V00	AE62700V01	AE62700V02	AE62700V03	70 A	2700	1000 Vdc		16.5K	35.5K	2.3	11.4	●	●
	AE62800V00	AE62800V01	AE62800V02	AE62800V03	80 A	2800	1000 Vdc		20.9K	53.3K	2.6	12	●	●

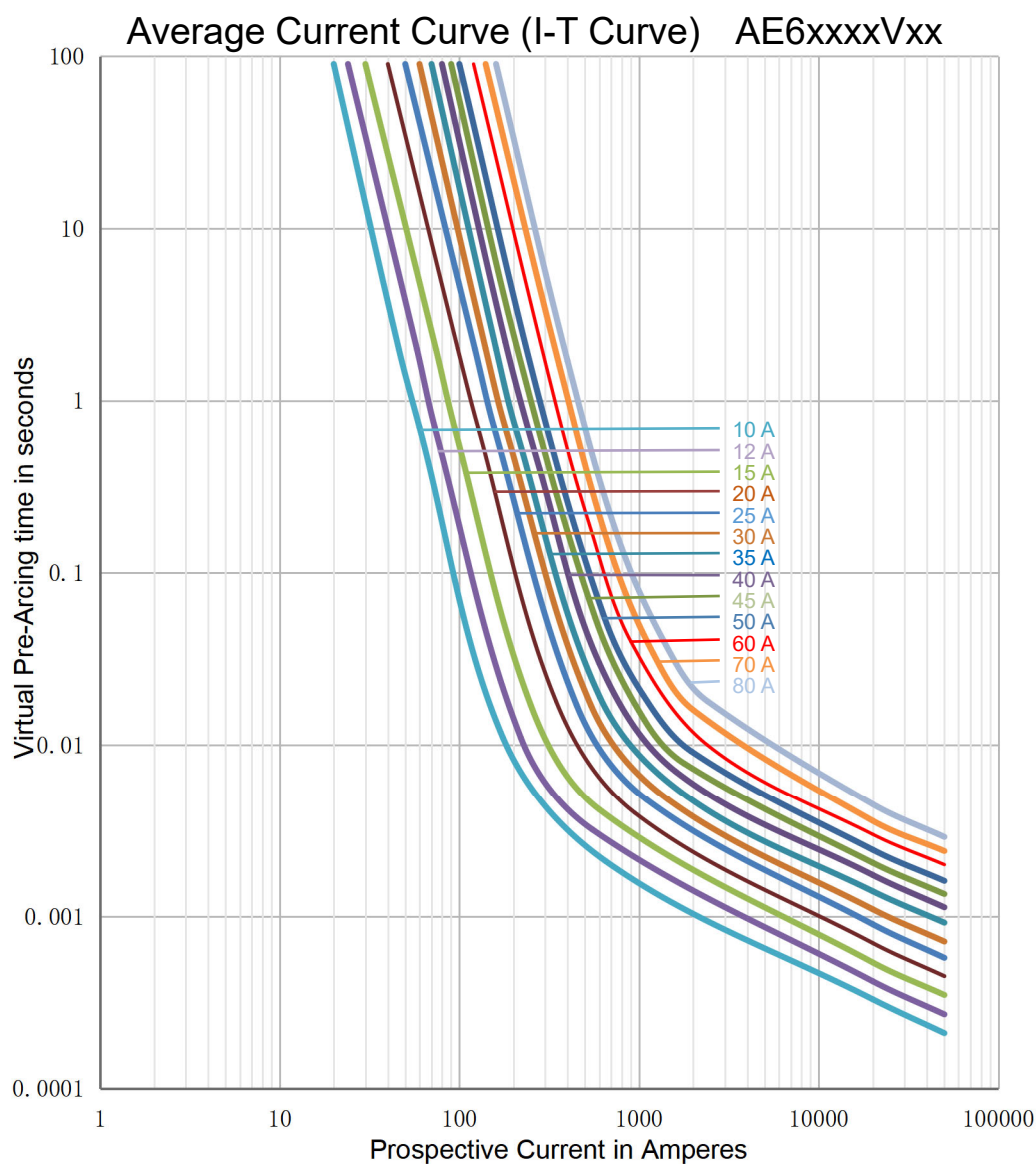
Note: 1. ●--- Certification is ready,
2. ○---Certificate is pending
3. UL file: E485737
TUV file: R50601246
4. I²t base on 1.0 I_n test

TIME CURRENT CURVE

Average Current Curve (I-T Curve)

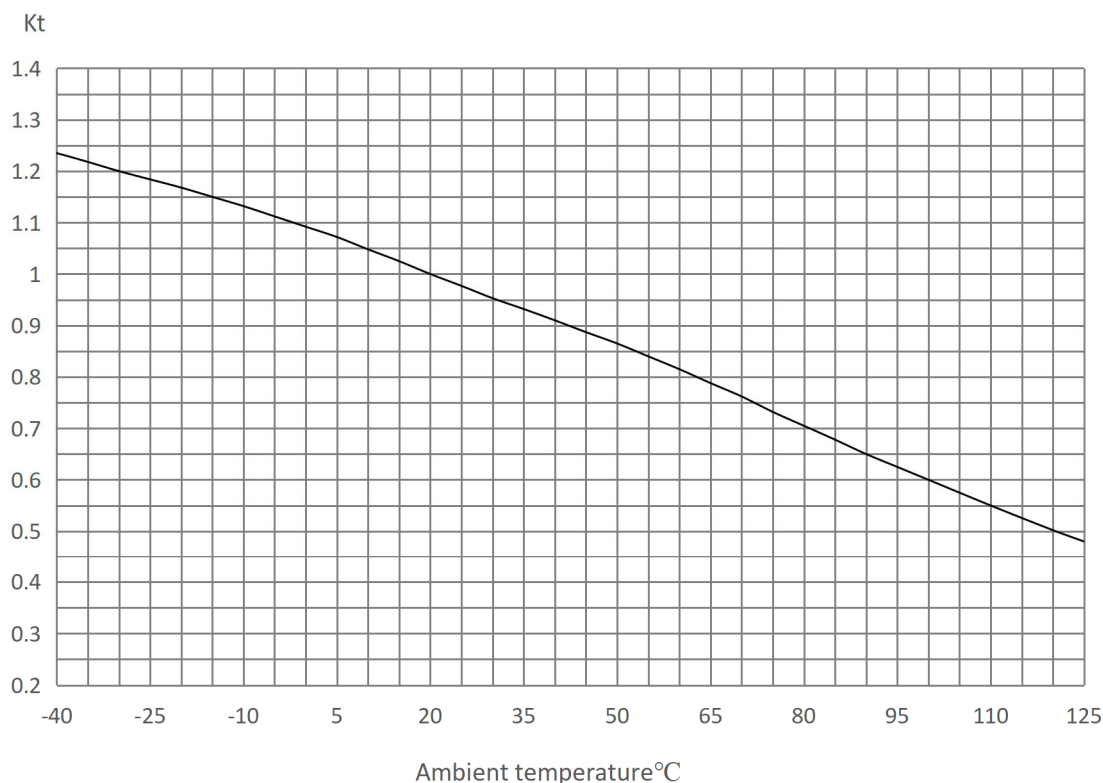


TIME CURRENT CURVE



TEMPERATURE DERATING 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 .



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 to 40°C , permissible operating temperature: -40°C to 125°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.

WEB RESOURCES

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