

AE7 EV Fuse

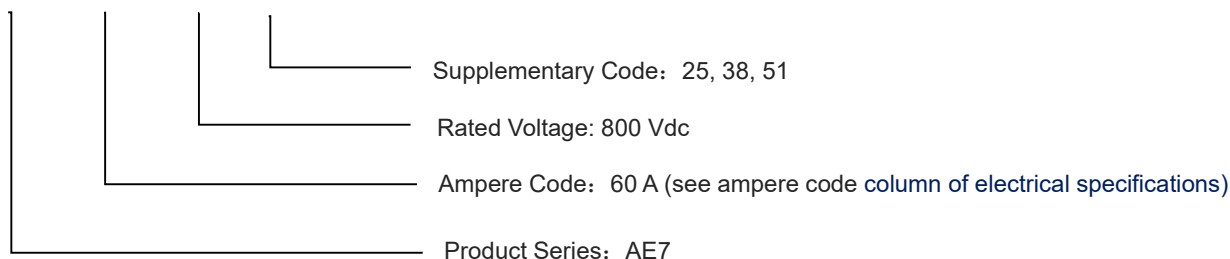


FEATURES

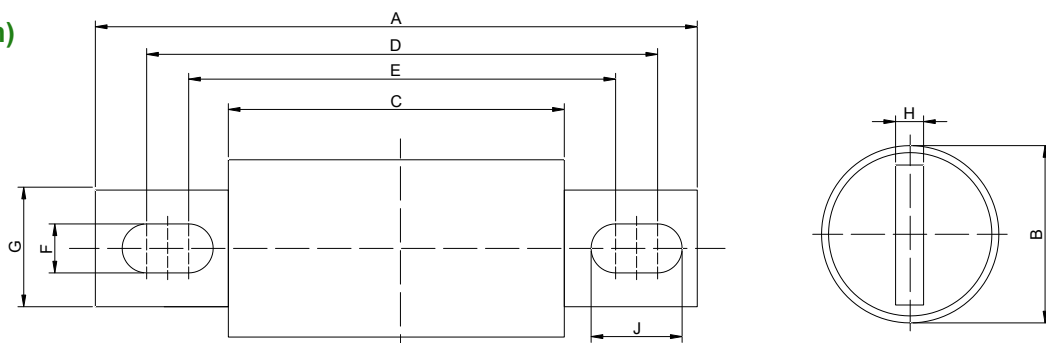
- 800 VDC EV high-speed power fuse
- Breaking Capacity: 50 kA
- Time Constant: $(L/R)2 \pm 1$ ms
- Special purpose fuse for EV/HEV automotive use
- For high power EV PDU and battery protection

PART NUMBERING SYSTEM

AE7 2600 i 25



DIMENSIONS (mm)



Size	A	B	C	D	E	F	G	H	J
25x66	111±0.8	25±0.5	66±0.8	95±0.8	93±0.8	9.0±0.2	18±0.5	3.2±0.1	10.0±0.5
38x72	129±0.8	38±0.5	72±0.8	107±0.8	89±0.8	10.5±0.2	25±0.5	6±0.1	19.5±0.5
51x72	129±0.8	51±0.5	72±0.8	109±0.8	90±0.8	10.5±0.2	38±0.5	6±0.1	20.0±0.5

DESCRIPTION

Adler AE7 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 800 Vdc In ratings from 60A to 800A.

AGENCY INFORMATION

- Designed to JASO D622, ISO 8820-8, UL248-20
- Approval: UL (E506668)
- Ref. To UL248-20; IEC 60269-4
- IATF 16949 quality system
- RoHS and REACH Compliant

APPLICATIONS

- Battery Charging Protection
- BMS Protection

PACKING INFORMATION

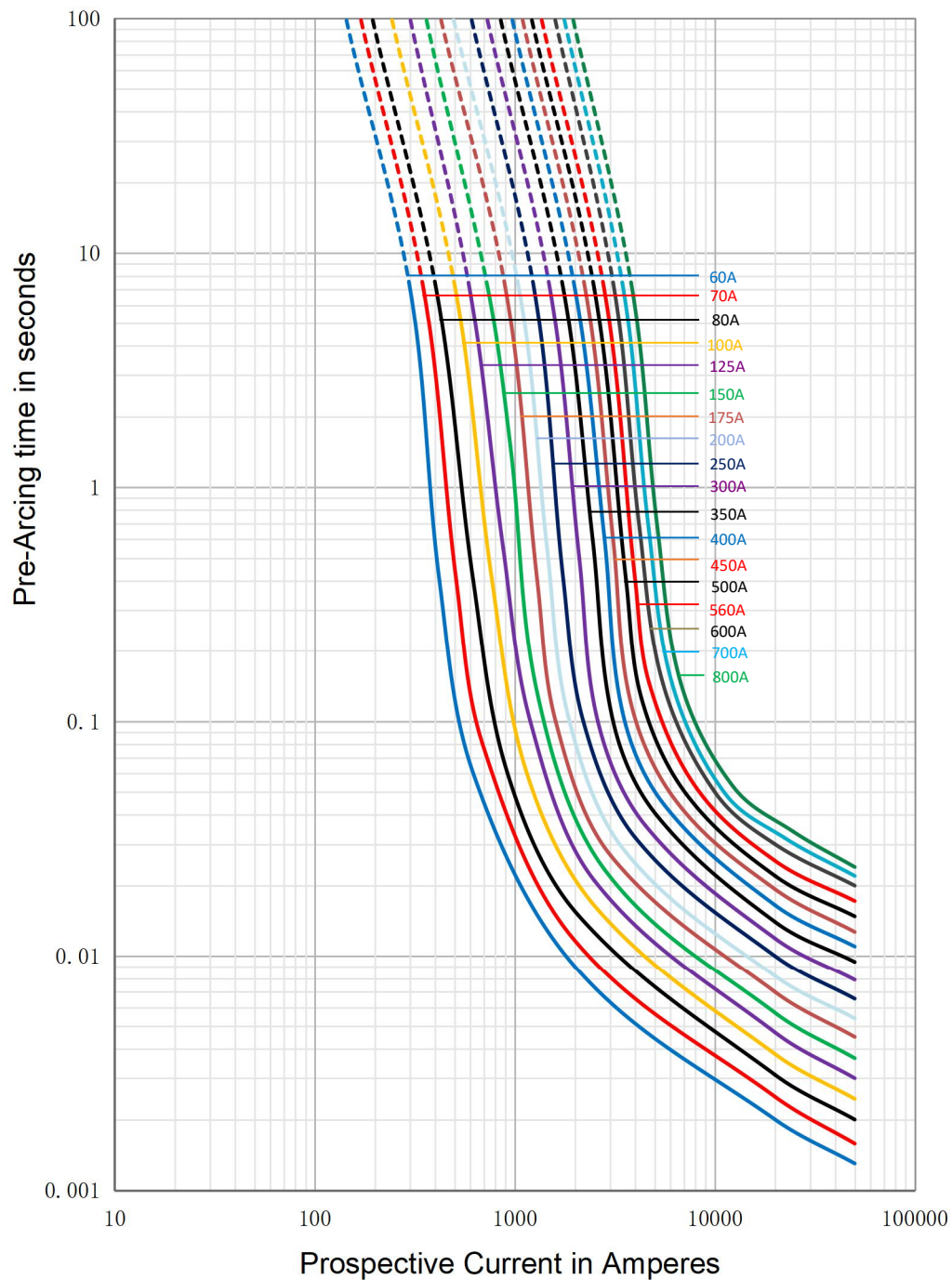
Fuse Size	Box specifications (mm)	Packing quantity / per container	Weight / PCS (g)	Recommended Screw	Recommended tightening torque (N·m)
Φ25x66	410×215×160	95pcs	97±3%	M8	12±1
Φ38x72	410×215×160	33pcs	261±3%	M10	20±1
Φ51x72	410×215×160	14pcs	475±3%	M10	20±1

Table1

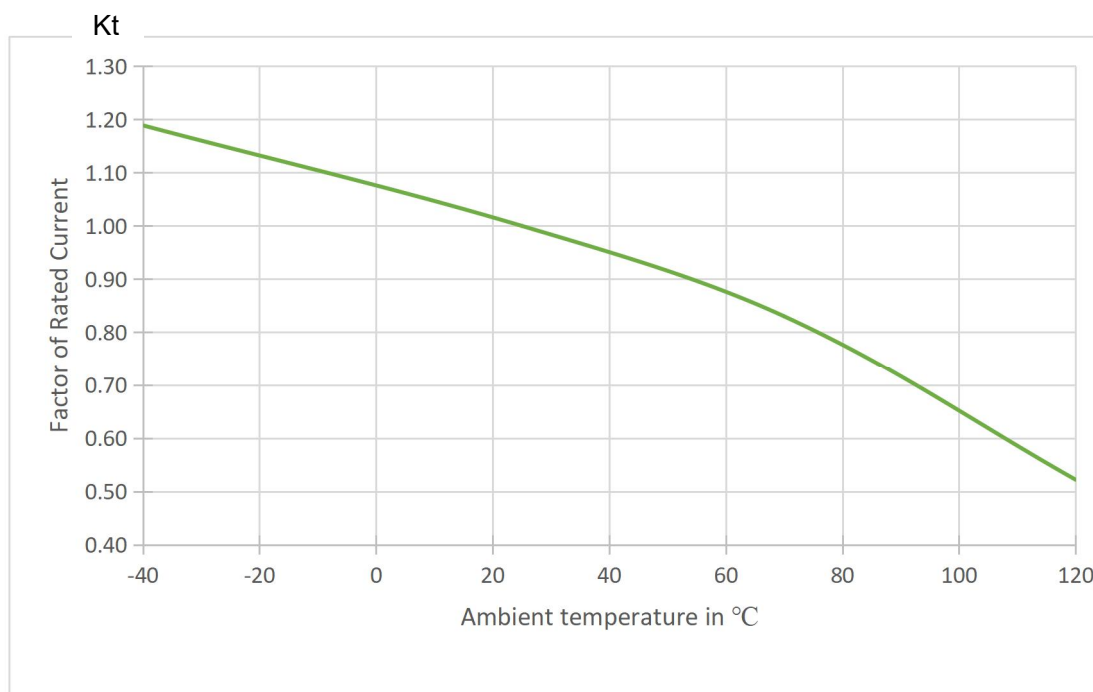
ELECTRICAL SPECIFICATIONS

Size (mm)	Part Number	Rated Current	Ampere Code	Rated Voltage	Breaking Capacity	Melting I ² T (A ² S)	Clearing I ² T (A ² S)	Dissipation(W)		Certifications
								0.5I _n	1.0I _n	
25x66	AE72600i25	60 A	2600	800 Vdc	50kA	5880	15373	3.0	13.2	•
	AE72700i25	70 A	2700			6860	17935	3.5	14.3	•
	AE72800i25	80 A	2800			8960	23425	3.8	15.5	•
	AE73100i25	100 A	3100			14000	36601	4.0	22.2	•
	AE73125i25	125 A	3125			23000	60131	4.5	26.5	•
	AE73150i25	150 A	3150			31000	81046	5.5	32.5	•
38x72	AE73175i38	175 A	3175	800 Vdc	50kA	40000	104575	6.0	35.9	•
	AE73200i38	200 A	3200			52000	135948	7.8	46.7	•
	AE73250i38	250 A	3250			57937	138468	10.1	59.2	•
	AE73300i38	300 A	3300			69524	181762	10.9	62.4	•
	AE73350i38	350 A	3350			81111	212055	11.3	62.8	•
	AE73400i38	400 A	3400			92698	242349	12.4	72.2	•
51x72	AE73450i51	450 A	3450	800 Vdc	50kA	104285	272643	16.6	104.1	•
	AE73500i51	500 A	3500			115873	302936	17.8	112.7	•
	AE73560i51	560 A	3560			129777	339289	19.2	122.4	•
	AE73600i51	600 A	3600			139047	363524	19.7	124.8	•
	AE73700i51	700 A	3700			145317	445634	23.3	146.5	•
	AE73800i51	800 A	3800			151530	534579	28.8	207.9	•

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°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 above sea level 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.