

AEY EV Fuse



FEATURES:

- 70 Vdc automotive fuse
- Rated Current: 10-500 A
- Operating Temperature: -40 to 125°C degrees
- Rated Breaking Capacity: 2.5 kA at 70 Vdc
- Bolt Size: M8
- Torque: M8: 12N·m
- Recommended fuse holder: BHR059-25-M8
BHR051-25-M8
BFR050-28-M8

DESCRIPTION

Adler AEY 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 70 Vdc in ratings from 10 A to 500 A.

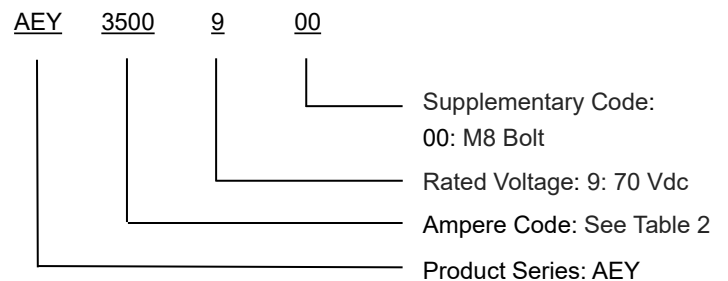
APPROVALS INFORMATION

- Ref. to: UL 248, ISO 20934, ISO 8820-5
- Approvals: UL (E485737) and TÜV (50551893)
- Manufactured under IATF 16949 quality system
- RoHS and REACH Compliant

APPLICATIONS

- Charging protection
- BMS Protection

PART NUMBERING SYSTEM



DIMENSIONS (mm)

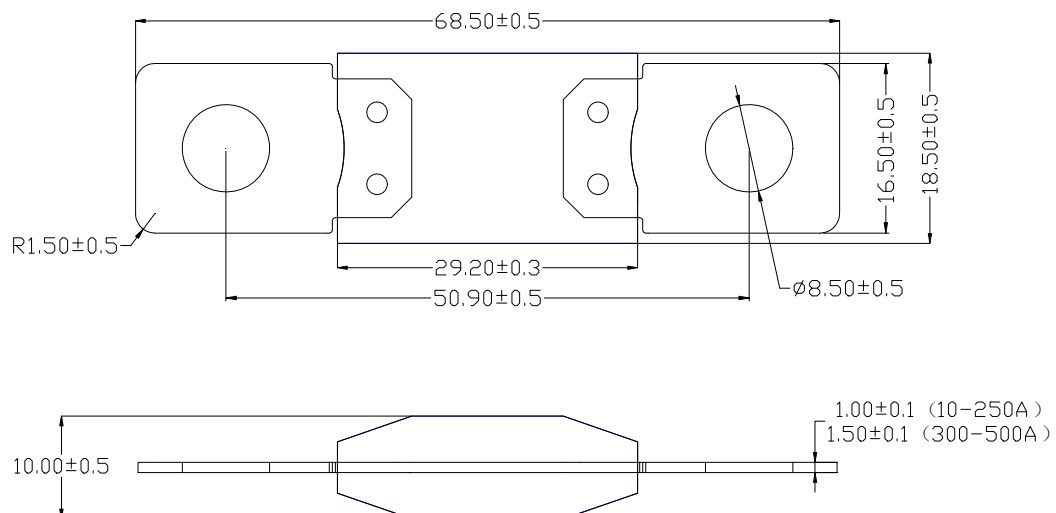


Table1
PACKING INFORMATION

Fuse Size	Box Specifications (mm)	Packing Quantity / Per Container	Weight / PCS (g)	Mounting Method	Mounting Requirements
AEYxxxx900	410×215×160	420 pcs	14±3%	BHR059-25-M8 BHR051-25-M8 BHR050-25-M8	12±1

Table2
ELECTRICAL SPECIFICATIONS

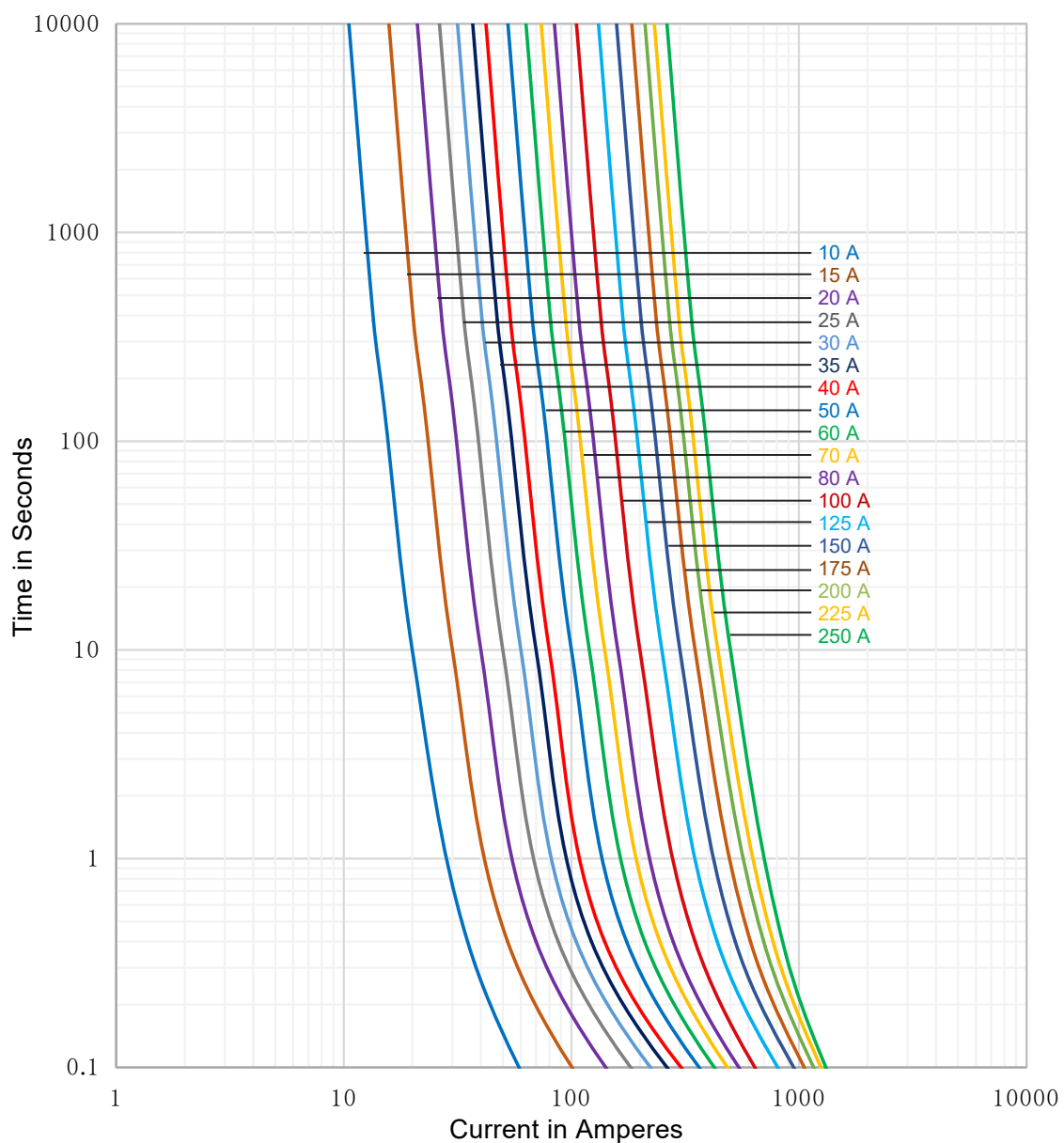
Part Number	Rated Current	Ampere Code	Rated Voltage	Breaking Capacity	Voltage Drop Max. (mV)	I ² t (A ² s)		Certifications	
						Pre-Arcing	Total	cURus	TUV
AEY2100900	10 A	2100	70 Vdc	2.5 kA@ 70 Vdc	135	120	178	•	•
AEY2150900	15 A	2150				380	450	•	•
AEY2200900	20 A	2200				620	700	•	•
AEY2250900	25 A	2250				860	1093	•	•
AEY2300900	30 A	2300				4300	1800	•	•
AEY2350900	35 A	2350				5900	3062	•	•
AEY2400900	40 A	2400				7600	8000	•	•
AEY2500900	50 A	2500				11875	12500	•	•
AEY2600900	60 A	2600				17100	18000	•	•
AEY2700900	70 A	2700				23275	24500	•	•
AEY2800900	80 A	2800			110	30400	32000	•	•
AEY3100900	100 A	3100				47500	50000	•	•
AEY3125900	125 A	3125				74219	78125	•	•
AEY3150900	150 A	3150				106875	112500	•	•
AEY3175900	175 A	3175				145469	153125	•	•
AEY3200900	200 A	3200				190000	200000	•	•
AEY3225900	225 A	3225				240469	253125	•	•
AEY3250900	250 A	3250				296875	312500	•	•
AEY3300900	300 A	3300			80	427500	450000	•	•
AEY3350900	350 A	3350				781250	800000	•	•
AEY3400900	400 A	3400				1120000	1200000	•	•
AEY3450900	450 A	3450				1417500	1518750	•	•
AEY3500900	500 A	3500				1750000	1875000	•	•

Table 3

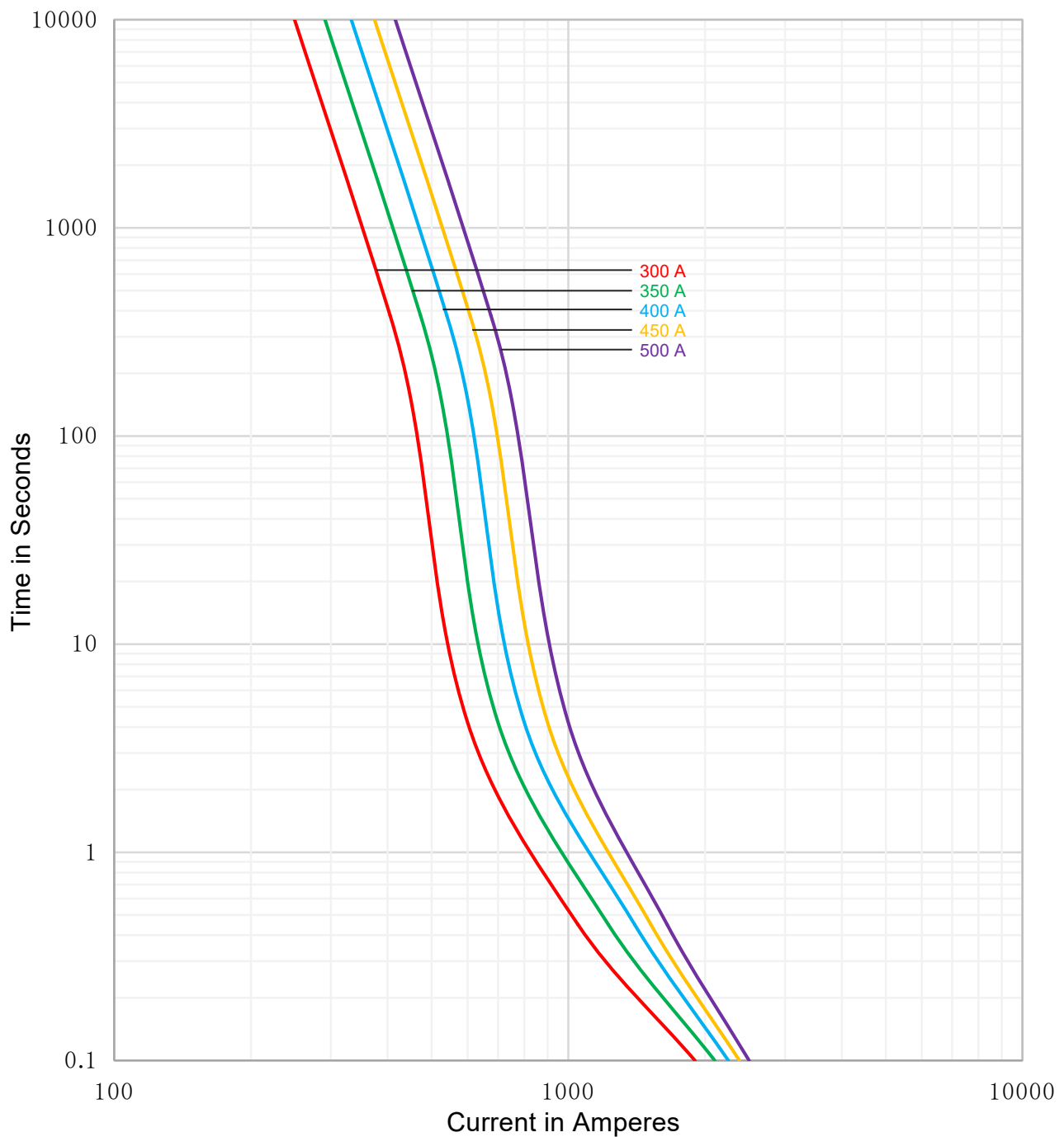
TIME VS CURRENT CHARACTERISTIC

Rated Current	75 %	100 %	135 %	200 %	300 %	350 %	600 %
10-35 A	-	>4 h	-	-	<10 s	-	-
40-250 A	-	>4 h	2-30 min	1-15 s	-	0.3-5 s	0.1-1 s
300-500 A	>4 h	-	-	1-15 s	-	0.3-5 s	0.1-1 s

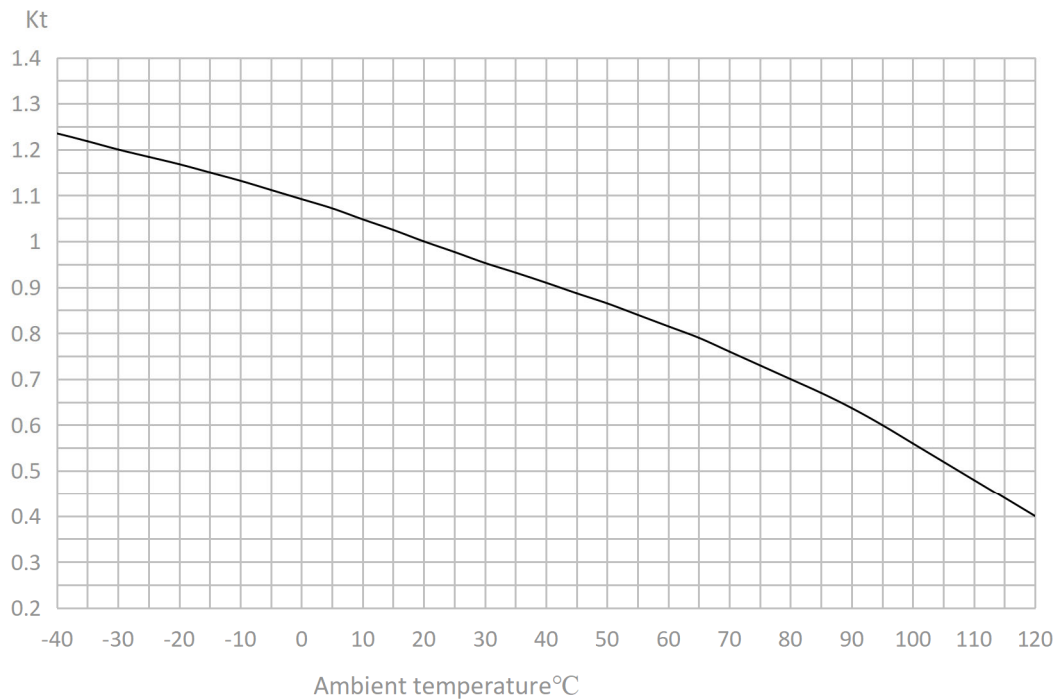
TIME CURRENT CURVE: 10-250 A



TIME CURRENT CURVE: 300-500 A



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-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.