

AT7 EV Fuse



Features

- Reliable clearing of DC fault currents
- High cycling performance
- Low watt losses
- Ultra-compact size and power density
- High breaking capacity to 20kA
- QR code marks on each fuse for traceability

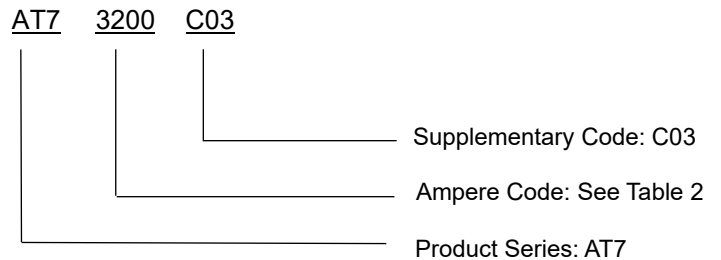
Description

Adler AT7 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 125A to 400A.

Agency Information

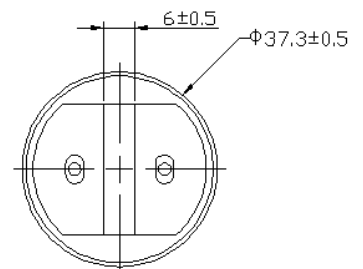
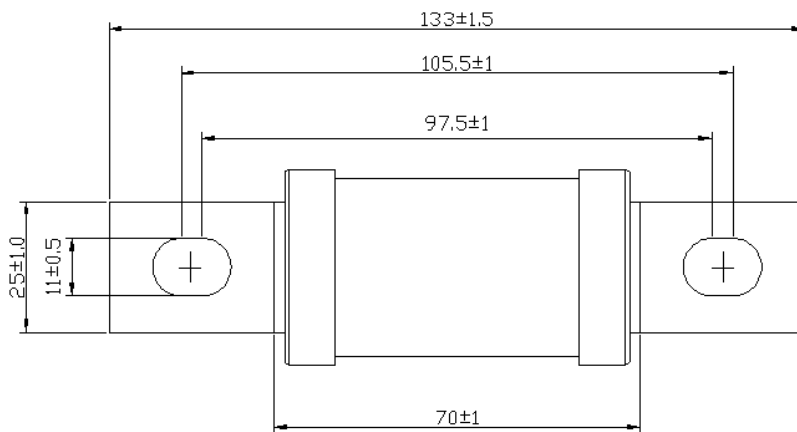
- Designed to UL 248-20, UL 248-13
- Manufactured under IATF 16949 quality system
- RoHS and REACH Compliant

Part Numbering System



Dimensions (mm):

AT7xxxC03



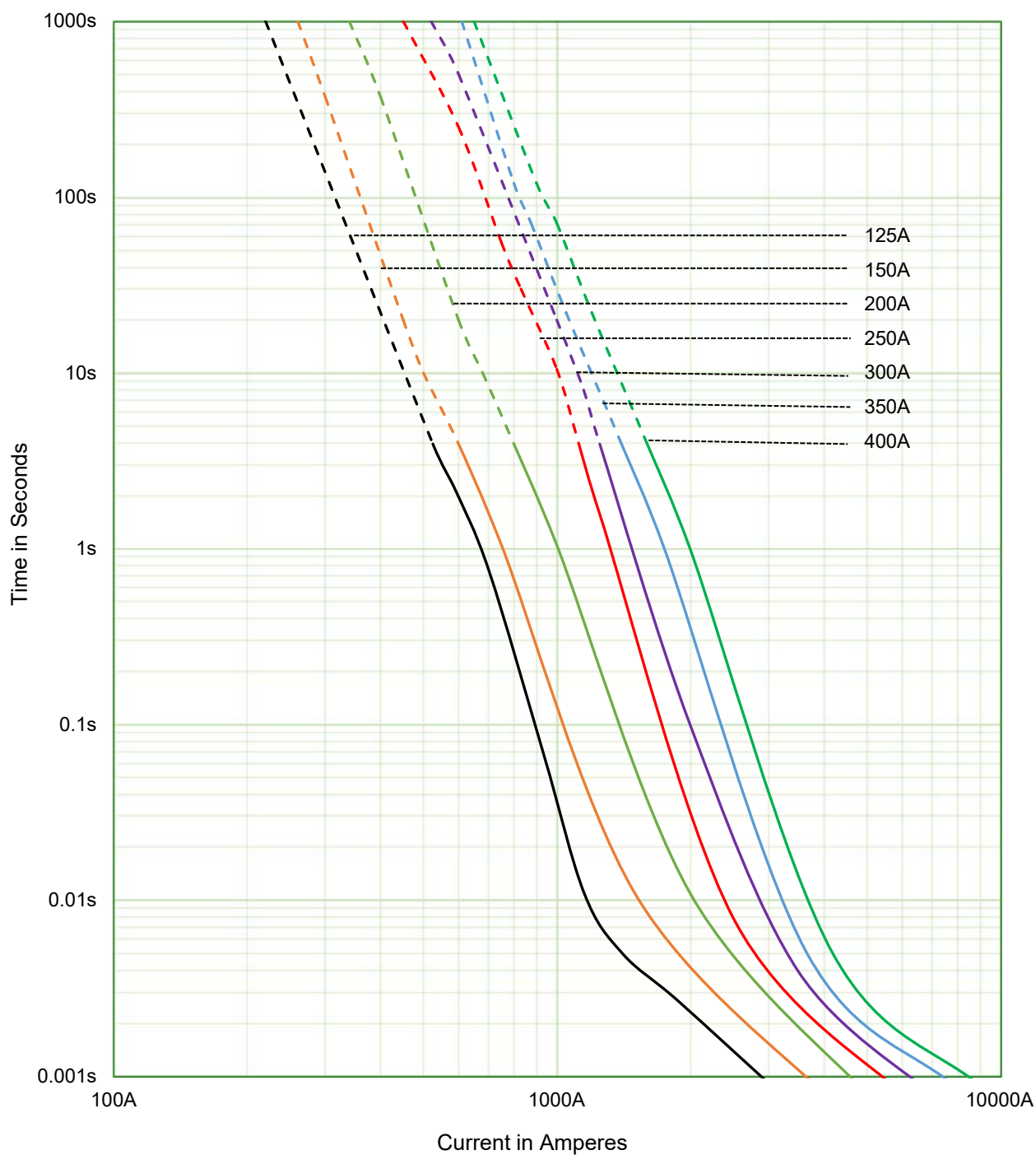
Electrical Specifications

Size	Part Number	Rated Current	Ampere Code	Rated Voltage	Breaking Capacity	Watt Loss (W)
(mm)					Self-test	1.0In
38x70	AT73125C03	125 A	3125	800Vdc	20kA	23
	AT73150C03	150 A	3150	800Vdc	20kA	32
	AT73200C03	200 A	3200	800Vdc	20kA	42
	AT73250C03	250 A	3250	800Vdc	20kA	45
	AT73300C03	300 A	3300	800Vdc	20kA	50
	AT73350C03	350 A	3350	800Vdc	20kA	65
	AT73400C03	400 A	3400	800Vdc	20kA	71

1. Temperature rise: $0.5I_n \leq 45K$.
2. Recommended mounting torque is 20 ± 1.0 Nm (M10).

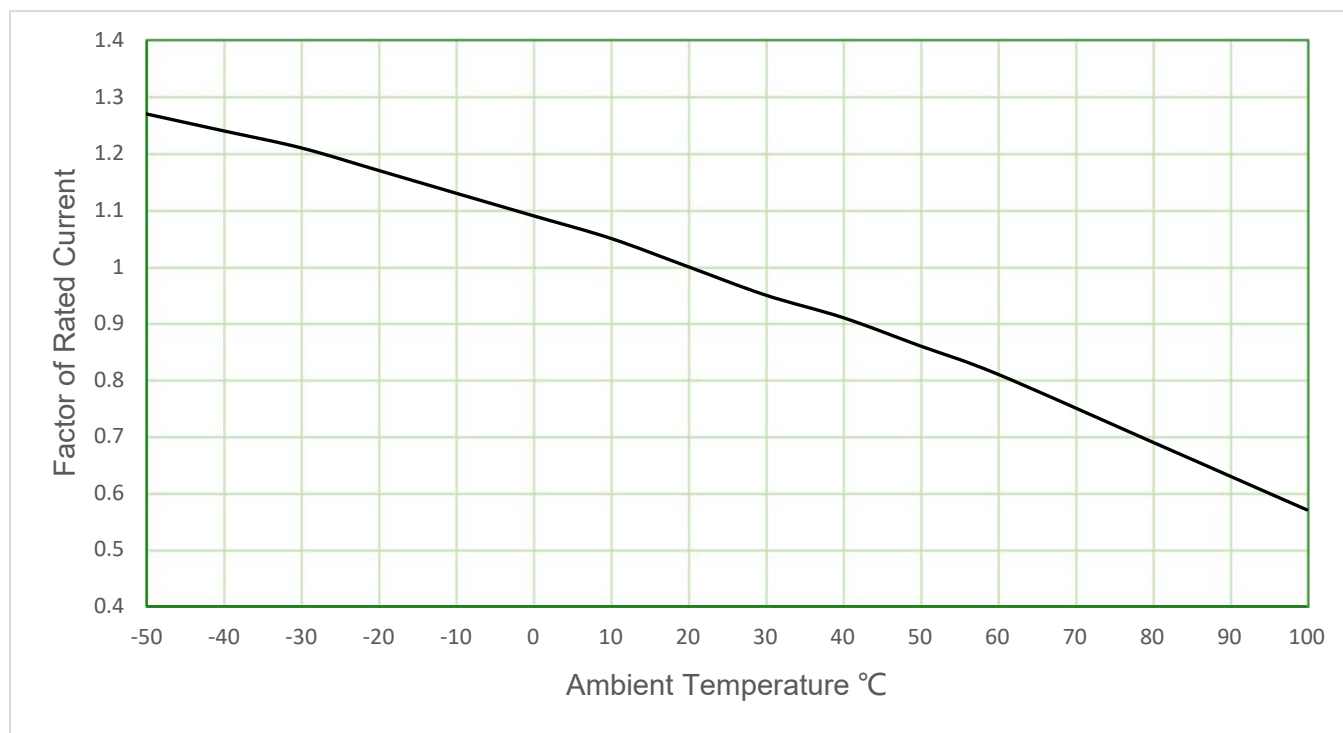
TIME CURRENT CURVE

AT7xxxxC03



TEMPERATURE DERATING CURVE

AT7xxxxC03



TRANSPORTATION and STORAGE

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

CONDITIONS for OPERATION in SERVICE

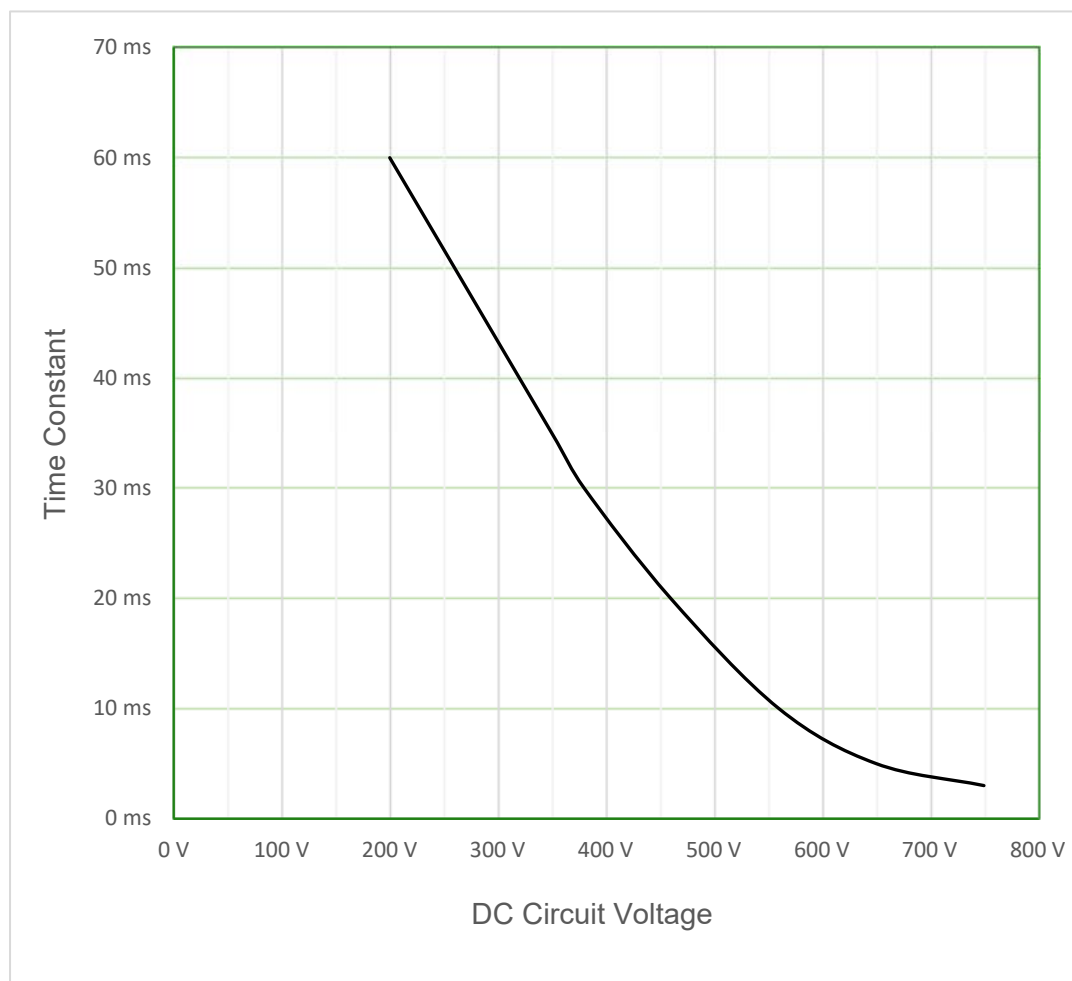
Where the following conditions apply, fuses complying with this standard are deemed capable of operating satisfactorily without further qualification.

- Normal temperature: -5°C to 40°C;
- The altitude of the site of installation of these fuses should not exceed 2000 m above sea level;
- The air should be clean and its relative humidity does not exceed 50% at the maximum temperature of 40°C;
- Higher relative humidities are permitted at lower temperatures, e.g., 90 % at 20°C;
- Under these conditions, moderate condensation may occasionally occur due to variation in temperature.

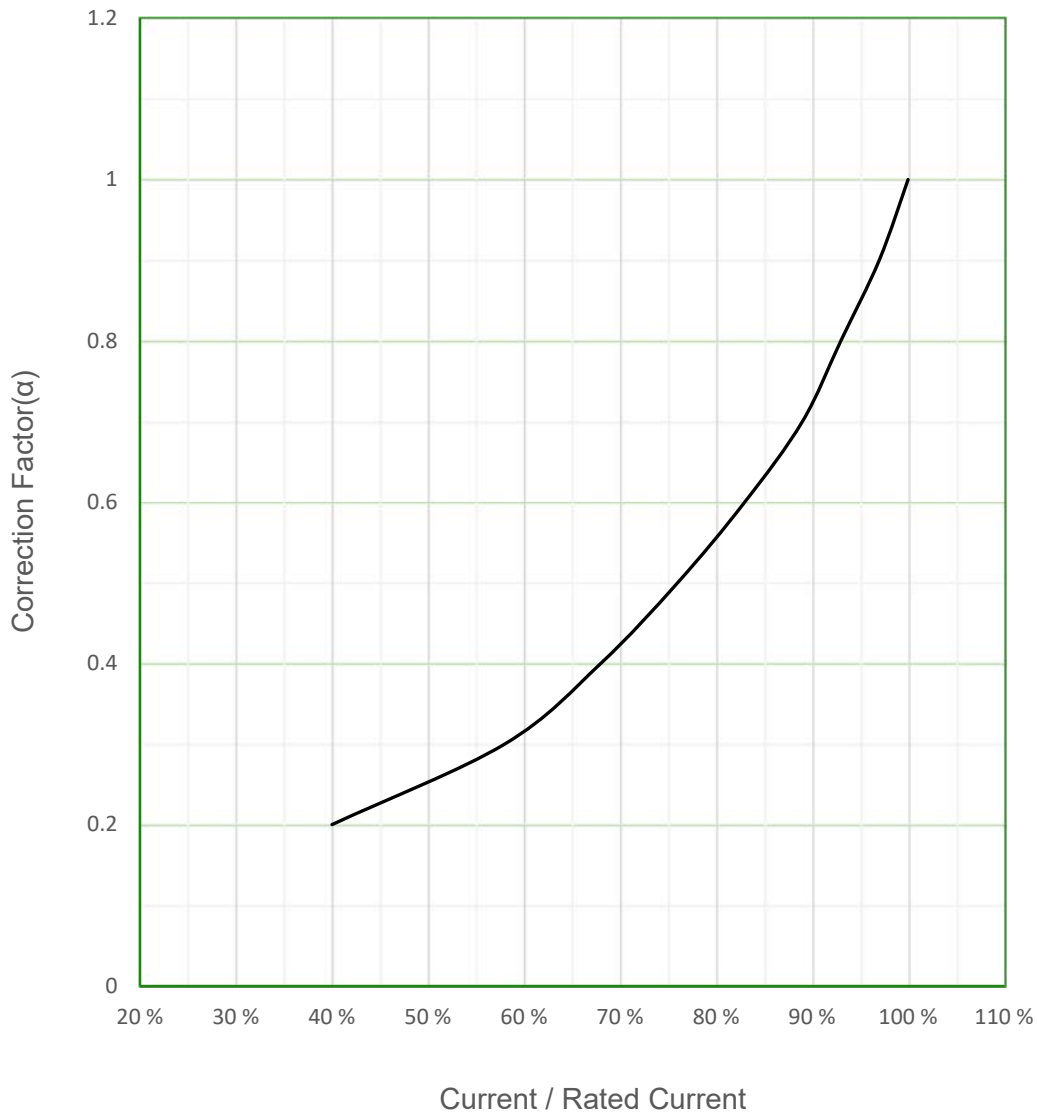
For operating conditions other than above, please contact the manufacturer.

APPLICATION NOTE

- A fuse is easily influenced by its surrounding atmosphere and by the power of the continuous electric current passing through it. To lengthen the life span of your fuses, ensure that your target workload is less than 65% of their rated current.
- When using a fuse in a DC circuit, depending on the circuit condition, you may have to use a higher rated voltage fuse than the circuit voltage. (See time constant graph below)



- If there is a possibility of an over loaded current which is in dot-line zone of TCC curve, the fuse should be used in conjunction with other protectors.
- When the applied current is lower than the rated current, you can get the value of the power loss as follow:
Power loss of rated current * Coefficient(α) of the applied current.



PACKAGING INFORMATION

Part No	Inner box				Outer box					
	L (mm)	W (mm)	H (mm)	Qty (pcs)	Qty boxes / outer box	Net Weight (kg)	Gross Weight (kg)	L (mm)	W (mm)	H (mm)
AT7xxxxC03	135	40.5	37.5	1	56	15.568	16.807	385	250	210

Web Resources

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