

RoHS  
Compliant



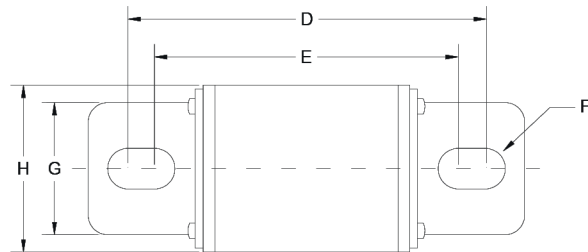
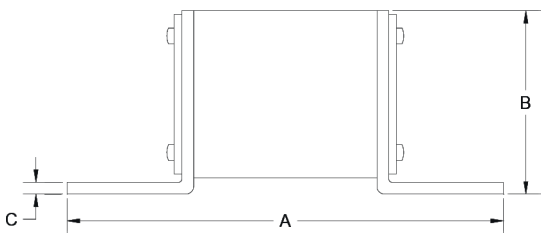
## Description

Adler 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 125A to 500A.

## Features

- Reliable clearing of DC fault currents
- High cycling performance
- Low watt losses
- Ultra-compact size and power density
- High breaking capacity to 50kA
- QR code marks on each fuse for traceability

## Dimensions



Dimensions : Millimetres

Part Number	A	B	C	D	E	F	G	H
MP010937	117 ±1.5	24 ±1	2 ±0.1	100.5 ±1	87.5 ±1	φ8.5 ±0.5	32.5 ±0.5	36.3+1.2/-0.5
MP010938								
MP010939	126.5 ±1.5	48 ±0.8	3 ±0.15	106 ±1	89 ±1	φ10.5 ±0.3	34 ±0.5	47 ±0.5
MP010940								
MP010941								

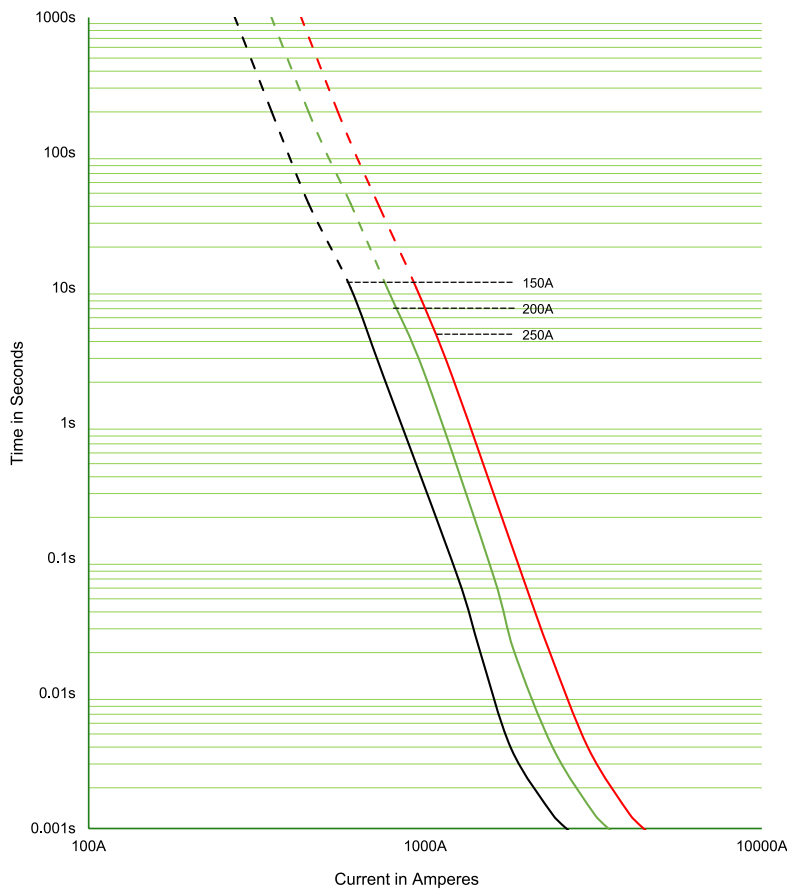
## Electrical Specifications

Size (mm)	Part Number	Rated Current	Ampere Code	Rated Voltage	Breaking Capacity		I2t (A2sec)		Watt Loss (W)
					UL**	Self-Certified	Prearcing	Total @ 1000V DC	0.5 I <sub>n</sub>
74 × 36	MP010937	200 A	3200	1000V DC	--	4I <sub>n</sub> ~50kA	-	-	6.6
	MP010938	250 A	3250		-		-	8.5	
71 × 47	MP010939	350 A	3350		4I <sub>n</sub> ~50kA	-	21600	115000	14.5
	MP010940	400 A	3400				28600	163000	17
	MP010941	450 A	3450				38200	223000	19.5

Table 2

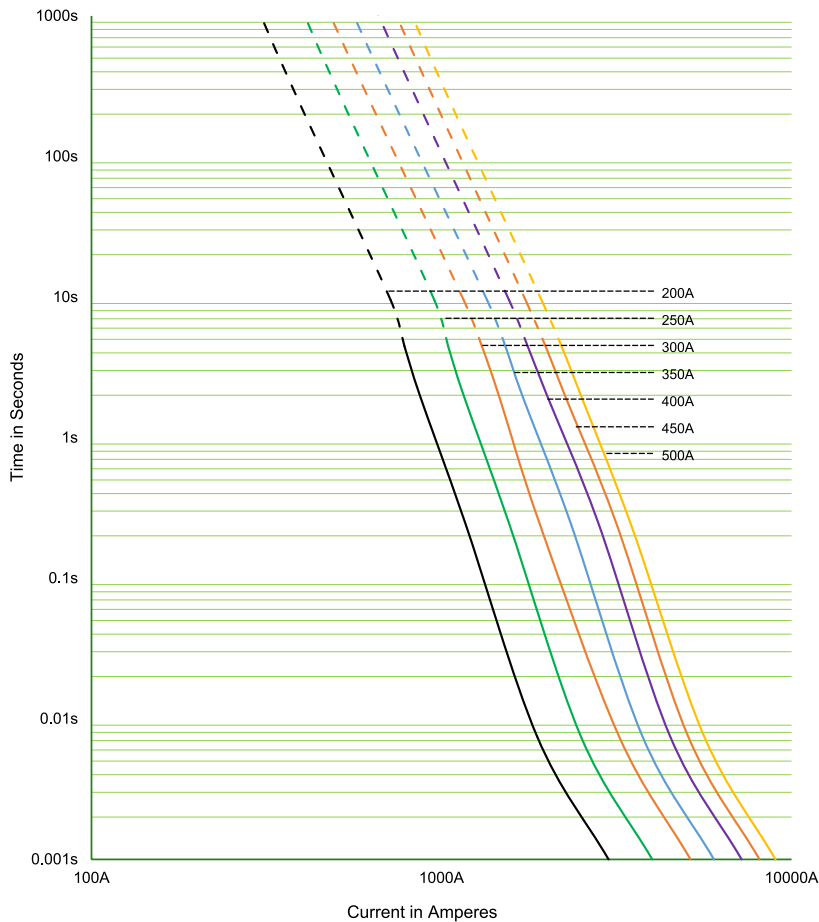
- \*\* --- UL File: E506668
- EFXxxxxa43 temperature rise: 0.5I<sub>n</sub> < 50K.
- EFXxxxxa36 recommend mounting torque is 12+/-1.0Nm (M8);  
EFXxxxxa43 recommend mounting torque is 20+/-1Nm (M10).

## Time Current Curve MP010937/MP010938

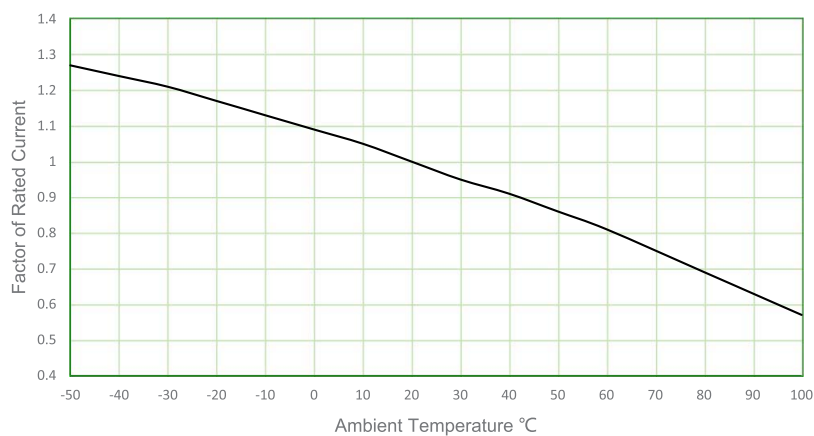


## Time Current Curve

MP010939/MP010940/MP010941

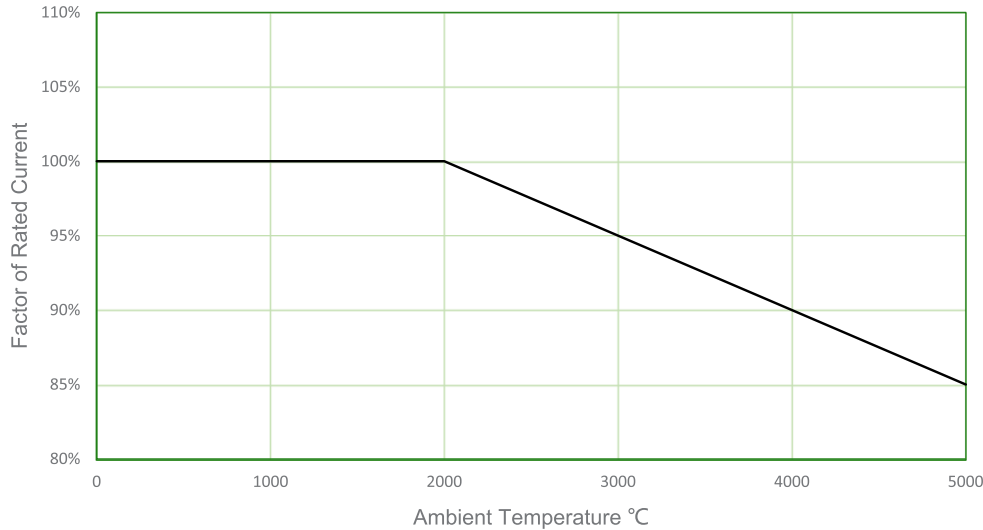


## Temperature Derating Curve



## Re-rating with High Altitude

The formula for calculating current load at high altitude:  $I = I_n * (1 - (h-2000)/100*(0.5/100))$  h is altitude, less than 5000m.



## Part Number Table

Description	Part Number
Automotive EV Fuse, 200A, 1000V DC	MP010937
Automotive EV Fuse, 250A, 1000V DC	MP010938
Automotive EV Fuse, 350A, 1000V DC	MP010939
Automotive EV Fuse, 400A, 1000V DC	MP010940
Automotive EV Fuse, 450A, 1000V DC	MP010941

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