



RoHS Compliant

Description

Adler AE5 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 500 Vdc in ratings from 50A to 700A.

Features

- · Reliable clearing of DC fault currents
- High cycling performance
- Low watt losses
- Ultra-compact size and power density
- High breaking capacity to 50kA
- · Operation as low as 200% In overload protection
- Full coverage of battery module current
- · QR code marks on each fuse for traceability

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;
- The altitude of the site of installation of the fuses does not exceed 2000 m above sea level;
- 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;
- · Under these conditions, moderate condensation may occasionally occur due to variation in temperature.

Storage

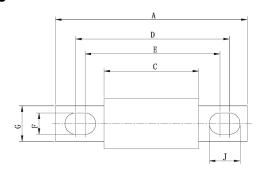
During transportation and storage, avoid water seepage and mechanical damage.

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multicomp PRO

Dimensions





Dimensions: Millimetres

Fuse Size	A ±0.8mm	B ±0.5mm	C ±0.8mm	D ±0.8mm	E ±0.8mm	F ±0.5mm	G ±0.5mm	H ±0.25mm	J ±0.5mm
Ф21 × 40	81	21	40	66	57	8.5	15	3.2	13
Ф25 × 44	89	25	44	73	71	9	18	3.2	10
Ф31 × 53	92	31	53	76	69	8.5	22	5	12
Ф38 × 53	110	38	53	88	70	10.5	24.8	6	19.5
Ф51 × 53	110	51	53	90	71	10.5	38	6	20

Electrical Specifications

Size	Part Number	Rated	Ampere Rated		Breaking Capacity		Melting I ² t	Clearing I ² t	Watt Loss (W)
(mm)		Current	Code	Voltage	TUV**	Self-Certified	(A²s)	(A²s)	0.5 ln
	MP010927	60A	2600	500V DC 30kA		50kA	274	2164	1.5
21 × 40	MP010928	70A	2700		30kA		345	2933	1.8
	MP010929	80A	2800				392	3565	2.1
	MP010930	100A	3100				639	6826	2.4
	MP010931	125A	3125				930	11396	2.9
	MP010932	150A	3150				1062	14680	3.6
25 × 44	MP010933	200A	3200				3455	31097	4.9
	MP010934	250A	3250				6870	46500	5.9
31 × 53	MP010935	300A	3300				12700	102871	6.9
	MP010936	400A	3400				18620	139400	9

Table 2

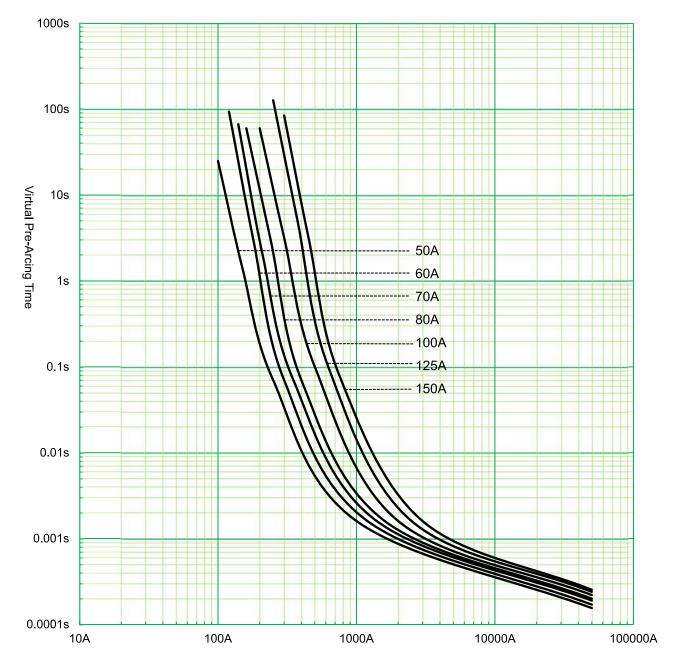
Time constant: 2 ± 0.5ms





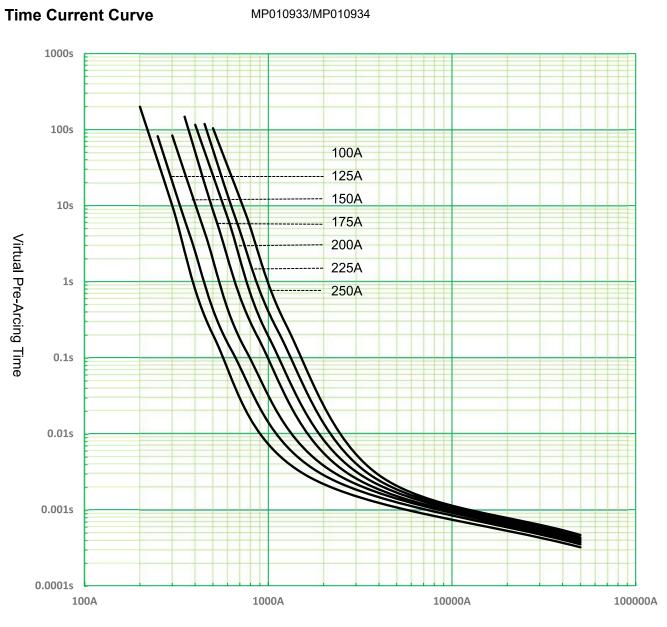
Time Current Curve

MP010927/MP010928/MP010929/MP010930/MP010931/MP010932



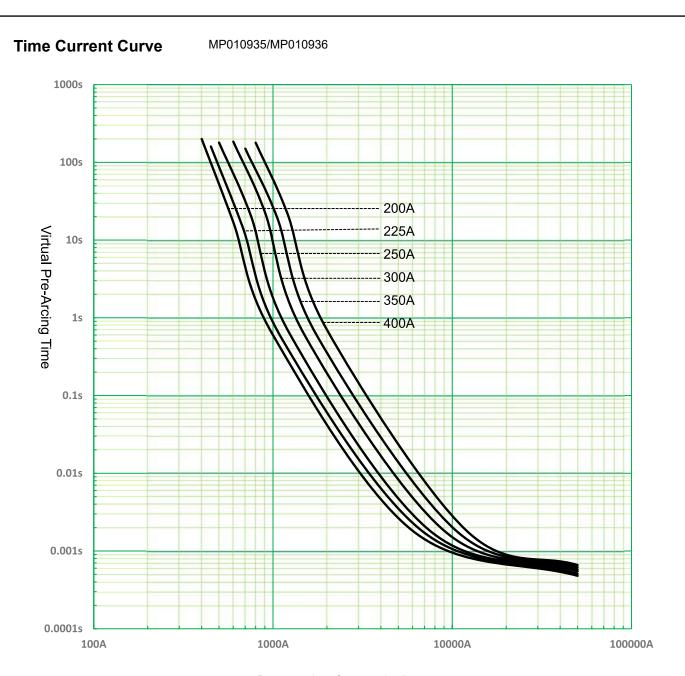
Prospective Current in Amperes





Prospective Current in Amperes





Prospective Current in Amperes



Part Number Table

Description	Part Number		
Automotive EV Fuse, 60A, 500V DC	MP010927		
Automotive EV Fuse, 70A, 500V DC	MP010928		
Automotive EV Fuse, 80A, 500V DC	MP010929		
Automotive EV Fuse, 100A, 500V DC	MP010930		
Automotive EV Fuse, 125A, 500V DC	MP010931		
Automotive EV Fuse, 150A, 500V DC	MP010932		
Automotive EV Fuse, 200A, 500V DC	MP010933		
Automotive EV Fuse, 250A, 500V DC	MP010934		
Automotive EV Fuse, 300A, 500V DC	MP010935		
Automotive EV Fuse, 400A, 500V DC	MP010936		

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