

AE5 EV Fuse



FEATURES:

- 500 VDC EV high-speed power fuse
- Rated Current: 50-150 A (21x40)
100-250 A (25x44)
200-400 A (31x53)
- Rated Breaking Capacity: 30 kA at 500 VDC
- Time Constant: 2±0.5 ms
- Size: 21x40 mm, 25x44 mm, 31x53 mm
- Special purpose fuse for EV/HEV automotive use
- For high power EV PDU and battery protection
- Ref. to ISO 8820-8; UL 248-1; UL 248-20
- Approvals: TUV (File: J50437773; J50437772; J50433104)

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) 0.5 In	Certifications TUV
21x40	AE52500620	50 A	2500	500 VDC	30 kA@500 VDC	350	1000	1.21	•
	AE52600620	60 A	2600			640	1800	1.45	•
	AE52700620	70 A	2700			810	2200	1.72	•
	AE52800620	80 A	2800			1180	3200	1.95	•
	AE53100620	100 A	3100			1851	5000	2.35	•
	AE53125620	125 A	3125			2450	6500	3.2	•
	AE53150620	150 A	3150			3800	10000	3.75	•
25x44	AE53100625	100 A	3100	500 VDC	30 kA@500 VDC	1400	4457	3.1	•
	AE53125625	125 A	3125			2100	5571	3.85	•
	AE53150625	150 A	3150			3360	8914	4.35	•
	AE53175625	175 A	3175			4900	13000	5.3	•
	AE53200625	200 A	3200			6100	16000	6	•
	AE53225625	225 A	3225			9800	25600	7	•
	AE53250625	250 A	3250			13700	35800	7.8	•
31x53	AE53200631	200 A	3200	500 VDC	30 kA@500 VDC	5787	14480	6.8	•
	AE53225631	225 A	3225			8138	24435	7.61	•
	AE53250631	250 A	3250			10850	31675	8.5	•
	AE53300631	300 A	3300			21700	54300	10.22	•
	AE53350631	350 A	3350			30600	76500	11.9	•
	AE53400631	400 A	3400			41000	102600	13.6	•

Note: (1) Temperature rise: <50 K.

TIME VS CURRENT CHARACTERISTIC

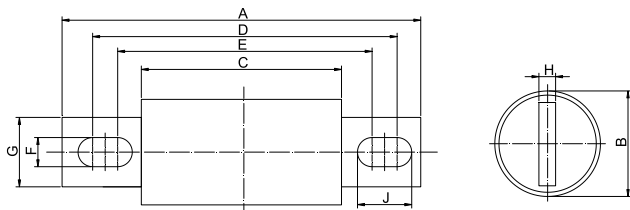
Rated Current	110 %	200 %	300 %	500 %
50-400 A	>4 h	1-300 s	0.2-30 s	0.1-10 s

PART NUMBER SYSTEM



- 1..... Product Series AE5
- 2..... Ampere Code 50 A (see Ampere code column of electrical specifications)
- 3..... Rated Voltage 6: 500 VDC
- 4..... Supplementary Code 20, 25, 31: default

CLASSIC SIZE (mm)



Size	A	B	C	D	E	F	G	H	J
21x40	81	21	40	66	57	8.5	15	3.2	13
25x44	89	25	44	73	71	9.0	18	3.2	10
31x53	92	31	53	76	69	8.5	22	4.8	12

TIME CURRENT CURVE

