

adler®

AE5 EV Fuse



FEATURES:

- 500 VDC EV high-speed power fuse
- Rated Current: 50-400 A
- Rated Breaking Capacity: 50 kA at 500 VDC
- Time Constant: (L/R) 2 ± 0.5 ms
- Dimensions: 21x40 mm, 25x44 mm, 31x53 mm
- Special purpose fuse for EV/HEV automotive use
- Ideal for high power EV PDU and battery protection
- Ref. to ISO 8820
- Recommended fuse holder: BFR063-23-M6, BFR071-35-M8

ELECTRICAL SPECIFICATIONS

Part Number	Rated Current	Ampere Code	Rated Voltage	Melting I^2t	Clearing I^2t	Breaking Capacity	0.5 I_n Dissipation (W)
AE52500620	50 A	2500	500 VDC	350	1000	50 kA@500 VDC	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
AE53100625	100 A	3100	500 VDC	1400	4457	50 kA@500 VDC	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
AE53200631	200 A	3200	500 VDC	5787	14480	50 kA@500 VDC	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

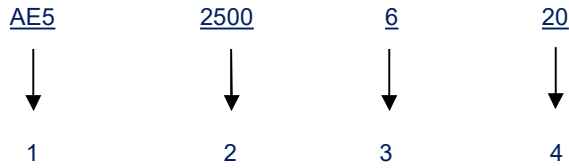
Note:

(1) Temperature Rise: ≤ 50 K at 50 % of rated current at 20°C environment temperature.

TIME VS CURRENT CHARACTERISTIC

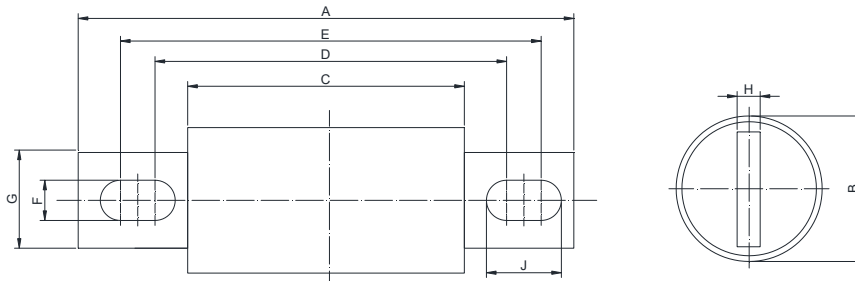
Rated Current	110 %	200 %	300 %	500 %
50-400 A	>4 h	1-300 s	0.2-30 s	0.1-10 s

PART NUMBER SYSTEM



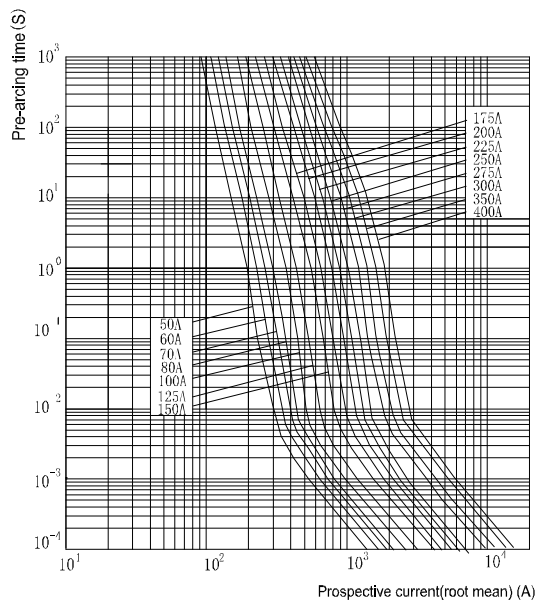
- 1Product Series AE5
- 2 Ampere Code 50 A(see ampere code column of electrical specifications)
- 3 Mounting 6 - bolt
- 4 Supplementary Code 20, 25, 31: default

DIMENSIONS (mm)



P/N	A	B	C	D	E	F	G	H	J
AE5xxxx620	81±0.8	21±0.5	40±0.8	57±0.8	66±0.8	8.5±0.5	15±0.5	3.2±0.1	13±0.5
AE5xxxx625	89±0.8	25±0.5	44±0.8	71±0.8	73±0.8	9.0±0.5	18±0.5	3.2±0.1	10±0.5
AE5xxxx631	92±0.8	31±0.5	53±0.8	69±0.8	76±0.8	8.5±0.5	22±0.5	4.8±0.1	12±0.5

Time Current Curve(reference)



Current Limiting (reference)

