AEX EV Fuse

RoHS CE

DESCRIPTION

Adler AEX series EV fuses are specially engineered and tested to provide best-in-class auxiliary protection and high-performance protection in managing systems of Electrical and Hybrid Electrical Vehicles, up to 1000 Vdc in ratings from 70 – 600 A and a rated breaking capacity of 30 kA at 1000 Vdc. The AEX was specifically built from the ground up to meet the stringent requirements and standards of the electric vehicle industry. Useful in EV Motor and Control Unit Battery Packs.

FEATURES

- 1000 Vdc EV high speed power fuse
- Rated Current: 70-100 A (31x86)
  125-200 A (38x83)
  250-500 A (51x89)
  600A(64x88)
- Rated Breaking Capacity: 50 kA at 1000 Vdc
- Time Constant: 2±0.5 ms
- Size: 31x86 mm, 38x83 mm, 51x89 mm,64x88mm
- Special purpose fuse for EV/HEV automotive use
- For high power EV PDU and battery protection

APPLICATIONS

- Battery pack protection
- Traction inverter protection
- Energy storage
- Power conversion
- High voltage power distribution
- Battery disconnect unit
- Primary Fuse
- Charging Fuse
- Auxiliary Fuses

AGENCY INFORMATION

- Designed to UL248-20, IEC 60269-4
- Manufactured under IATF 16949 quality system
- RoHS and REACH Compliant

PART NUMBER SYSTEM

AEX 3600 7 31

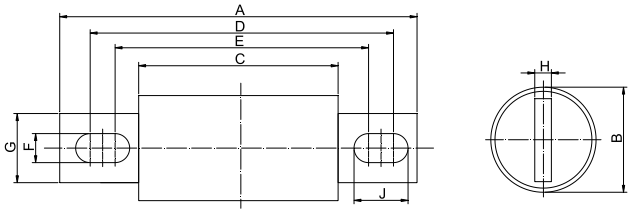
- 31 — Supplementary Code: 31,38,51,64: default
- 7 — Voltage Code: 1000 Vdc
- 3600 — Ampere Code: 600A(See Table 1)
- AEX — Product Series: AEX

ELECTRICAL SPECIFICATIONS

Size (mm)	Part Number	Rated Current	Ampere Code	Rated Voltage	Breaking Capacity	Melting I^2t (A^2s)	Clearing I^2t (A^2s)	Dissipation (W) 0.5 In
31x86	AEX2700731	70 A	2700	1000 VDC	30 kA@1000 VDC	1847	3879	3.63
	AEX2800731	80 A	2800			2886	6061	3.80
	AEX2900731	90 A	2900			4156	8728	4.00
	AEX3100731	100 A	3100			5657	11880	4.24
38x83	AEX3125738	125 A	3125	1000 VDC	30 kA@1000 VDC	7389	15517	5.58
	AEX3150738	150 A	3150			11545	24245	6.43
	AEX3175738	175 A	3175			17680	37129	7.07
	AEX3200738	200 A	3200			29556	62068	7.14
51x89	AEX3250751	250 A	3250	1000 VDC	30 kA@1000 VDC	41678	87525	9.71
	AEX3300751	300 A	3300			66501	139653	11.07
	AEX3350751	350 A	3350			90515	190083	12.91
	AEX3400751	400 A	3400			133464	280275	13.50
	AEX3500751	500A	3500			133000	320000	15.73
64x88	AEX3600764	600A	3600	1000 VDC	30 kA@1000 VDC	221000	386000	20.3

Table1 Note: (1) Temperature rise: <50 K.

DIMENSIONS (mm)



Size	A	B	C		E	F	G	H	J
31x86	125±1.2	31±0.5	86±0.8	109±0.8	102±0.8	8.5±0.5	22±0.5	5±0.1	12.0±0.5
38x83					100±0.8	10.5±0.5	25±0.5	6±0.1	19.5±0.5
51x89	146±1.2	51±0.5	89±0.8	126±0.8	107±0.8	10.5±0.5	38±0.5	6±0.1	20.0±0.5
					122±1.2	13.0±0.2	50±0.5	10±0.1	33.0±0.5

Table2

TIME CURRENT CURVE