



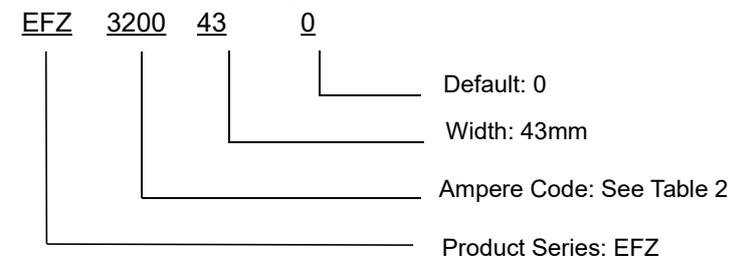
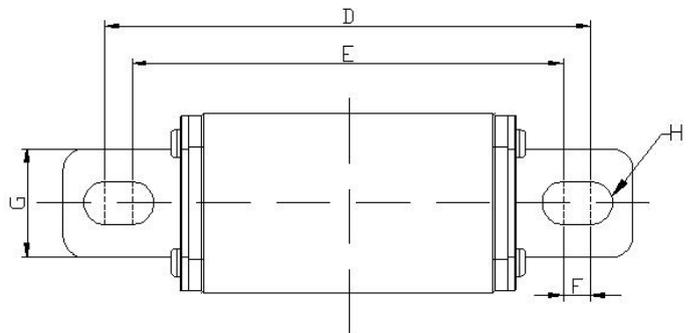
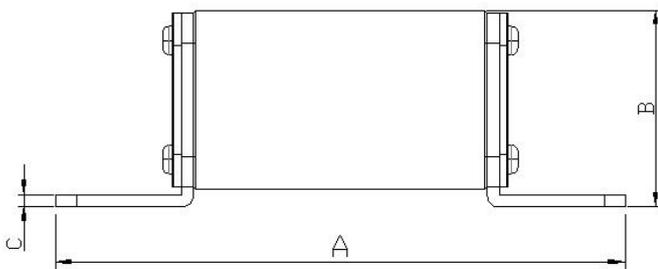
EFZ EV Fuse



Features

- Reliable clearing of DC fault currents
- High cycling performance
- Low watt losses
- Ultra-compact size and power density
- High breaking capacity to 30kA(UL) ,50kA(TUV)
- QR code marks on each fuse for traceability

Dimensions (mm)



Description

Adler EFZ series EV fuses are especially 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 1500 Vdc in ratings from 100A to 300A.

Agency Information

- Designed to UL 248-20
- UL Recognized Component (File No: E506668)
- TUV Recognized (File No: J 50637644)
- Manufactured under IATF 16949 quality system
- RoHS and REACH Compliant

Part Numbering System

Table 1

Fuse Size	A±1.5 mm	B±1.5 mm	C±0.2 mm	D±1.5 mm	E±1.5 mm	F±0.5 mm	G±0.5 mm	H±0.3 mm
84x43	136.0	47.2	3.0	116.0	103.0	6.5	26.0	φ 10.3



Electrical Specifications

Table 2

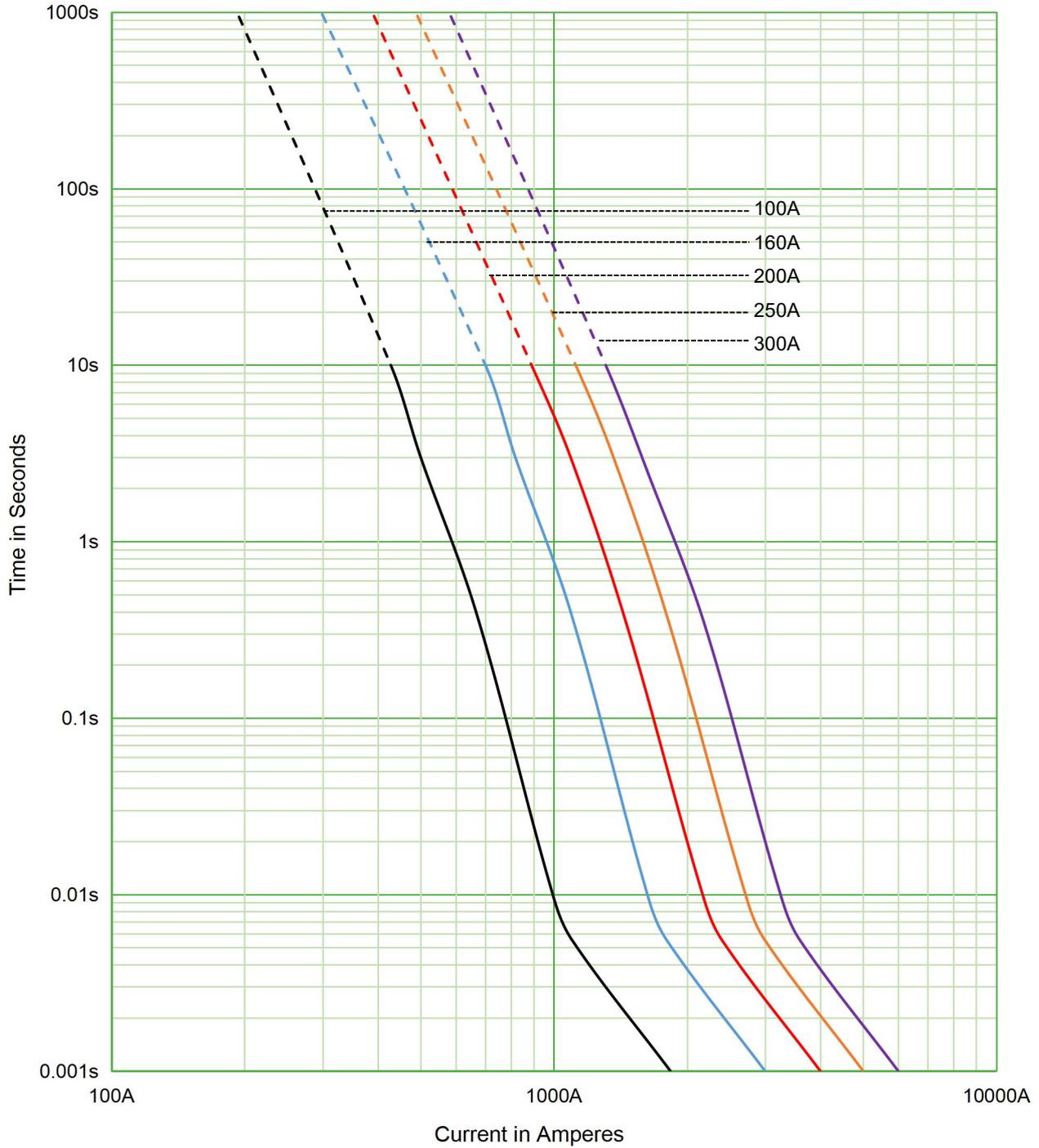
Size (mm)	Part Number	Rated Current	Ampere Code	Rated Voltage	Breaking Capacity		I ² t (A ² sec)		Watt Loss(W)
					*UL	**TUV	Pre-arcing	Total @ 1500Vdc	1.0In
84x43	EFZ3100430	100 A	3100	1500Vdc	30kA	50kA	1680	10700	32
	EFZ3160430	160 A	3160	1500Vdc	30kA	50kA	4500	29000	45
	EFZ3200430	200 A	3200	1500Vdc	30kA	50kA	7530	51000	53
	EFZ3250430	250 A	3250	1500Vdc	30kA	50kA	12400	86800	62
	EFZ3300430	300 A	3300	1500Vdc	30kA	50kA	18810	137500	72

1. Temperature rise: $0.5I_n < 50K$.
2. Recommend mounting torque is $12 \pm 1.0Nm$ (M8)
3. *UL File: E506668
4. **TUV File: J 50637644



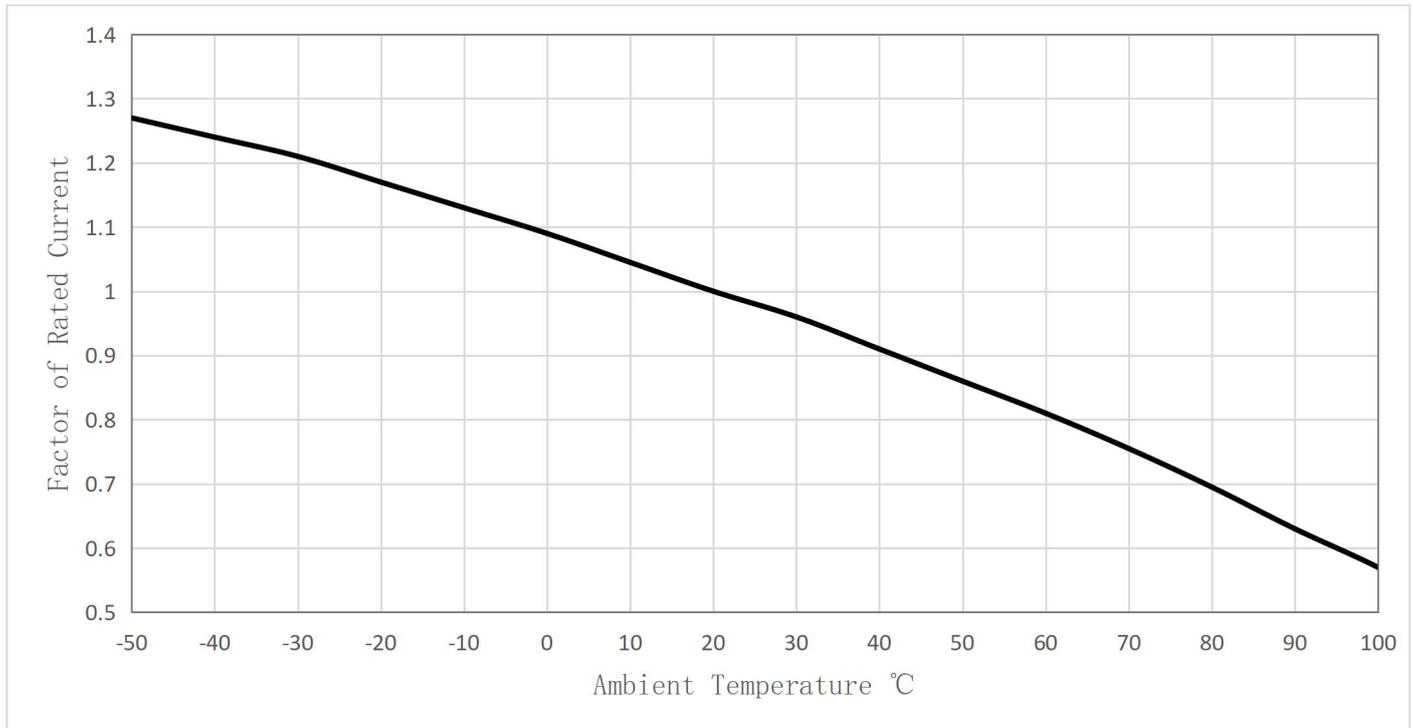
TIME CURRENT CURVE

EFXxxxx430



TEMPERATURE DERATING CURVE

EFZxxxx430



Operating Temperature: -40°C to $+125^{\circ}\text{C}$, with proper derating factor applied.

TRANSPORTATION and STORAGE

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

CONDITIONS for OPERATION in SERVICE

Where the following conditions apply, fuses complying with this standard are deemed capable of operating satisfactorily without further qualification.

- Normal temperature: -5°C to 40°C .
- The altitude of the site of installation of these fuses should not exceed 2000 m above sea level.
- The air should be clean and its relative humidity does not exceed 50% at the maximum temperature of 40°C .
- Higher relative humidities are permitted at lower temperatures, e.g. 90 % at 20°C .
- Under these conditions, moderate condensation may occasionally occur due to variation in temperature.

For operating conditions other than above, please contact the manufacturer.

VIBRATION

Meet JASO D622:2006 Section 6.3.3 Vibration durability test requirement, can be use on Electrical Vehicle application.



EV 1500 Vdc EV Fuse Links

PACKAGING INFORMATION

Part No	Inner box				Outer box					
	L (mm)	W (mm)	H (mm)	Qty (pcs)	Qty boxes /outer box	Net Weight (kg)	Gross Weight (Kg)	L (mm)	W (mm)	H (mm)
EFZxxx430	145	105	45	2	20	19.680	20.998	340	275	220

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