



FEATURES

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

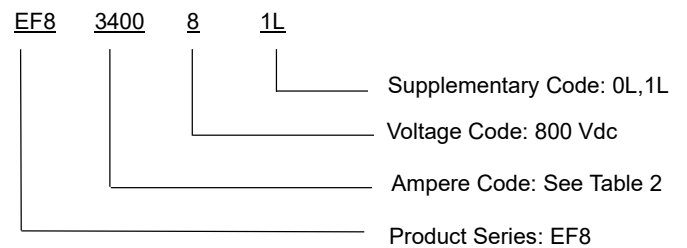
DESCRIPTION

Adler EF8 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 800 Vdc in ratings from 100A to 400A.

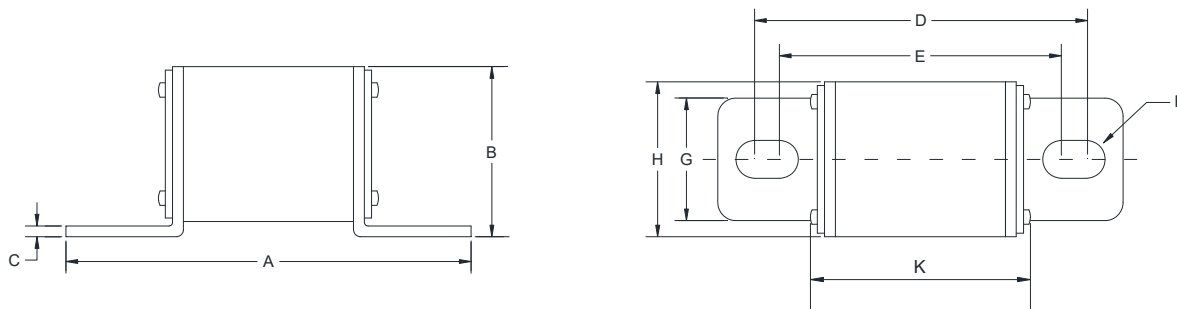
AGENCY INFORMATION

- Designed to UL 248-20
- UL Recognized Component
- Manufactured under IATF 16949 quality system
- RoHS and REACH Compliant

PART NUMBERING SYSTEM



DIMENSIONS (mm):



Part Number	A	B	C	D	E	F	G	H	K
EF8xxx80L	98±1.5	25±1	2±0.2	83±1	70.5±1	φ 8.5±0.5	20±0.5	22±0.8	57±3
EF8xxx81L	100±1.5	24±1	2±0.2	83.5±1	70.5±1	φ 8.5±0.5	32.5±0.5	36.3 +1.2/-0.5	57±3

Table 1
ELECTRICAL SPECIFICATIONS

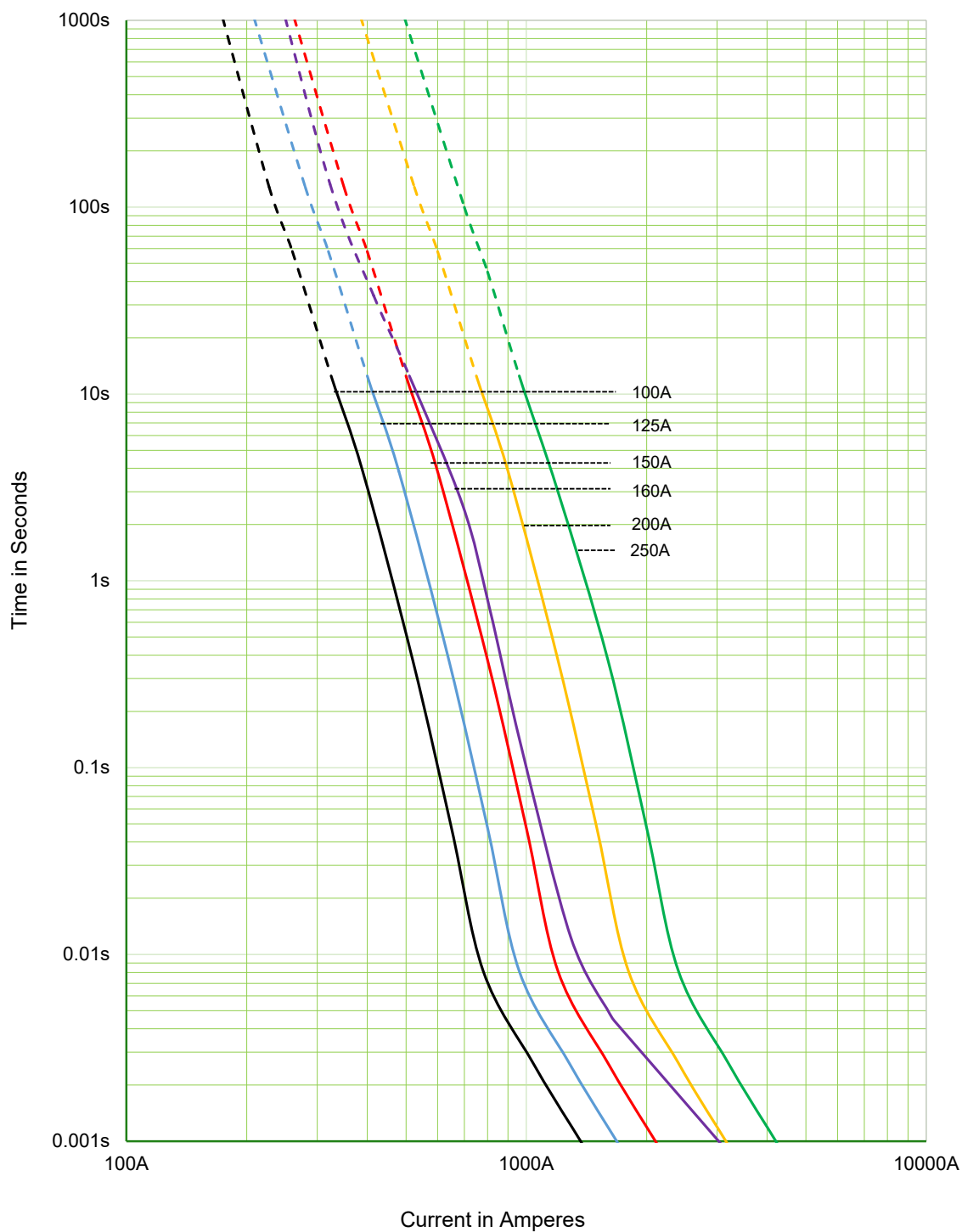
Size	Part Number	Rated Current	Ampere Code	Rated Voltage	Breaking Capacity	I ² T (A ² sec)		Watt Loss (W)	
(mm)					UL**	Pre-arcing	Total @ 800 Vdc	0.5 I _n	1.0 I _n
98x22	EF8310080L	100 A	3100	800 Vdc	4In~50 kA	990	5,120	6	21
	EF8312580L	125 A	3125	800 Vdc	4In~50 kA	1,650	8,910	4	23
	EF8315080L	150 A	3150	800 Vdc	4In~50 kA	2,750	16,500	7	25
	EF8316080L	160 A	3160	800 Vdc	4In~50 kA	11,000	-	5.1	29.5
	EF8320080L	200 A	3200	800 Vdc	4In~50 kA	6,200	41,500	7.5	30
	EF8325080L	250 A	3250	800 Vdc	4In~50 kA	11,000	75,000	-	37
100x36	EF8325081L	250 A	3250	800 Vdc	6In~20 kA	8,900	50,700	9.5	48
	EF8331581L	315 A	3315	800 Vdc	6In~20 kA	12,500	73,000	11.3	60
	EF8335081L	350 A	3350	800 Vdc	6In~20 kA	18,500	115,000	15.1	65
	EF8340081L	400 A	3400	800 Vdc	6In~20 kA	26,500	172,000	17.4	72

Table 2

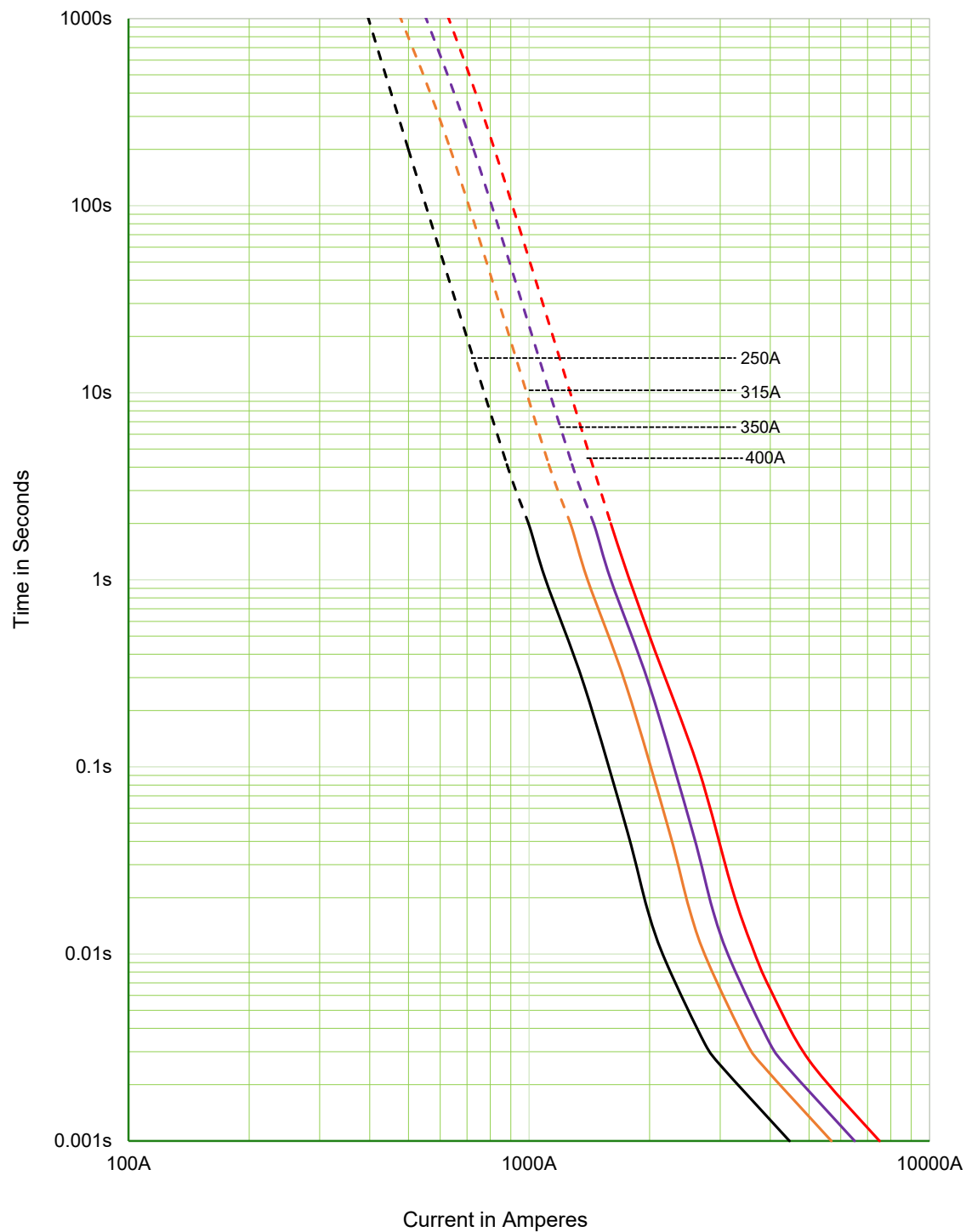
1. ** --- UL File: E506668
2. Recommend mounting torque is 12+/-1.0Nm (M8)

TIME CURRENT CURVE

EF8xxx80L 100A – 200A

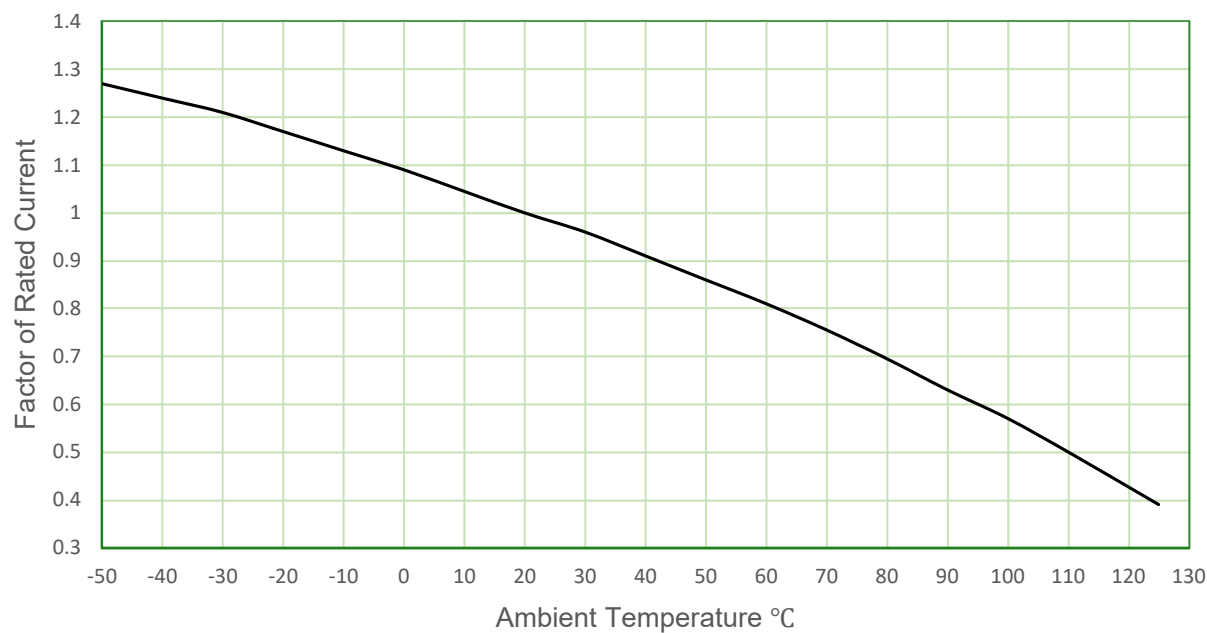


EF8xxx81L 250A – 400A

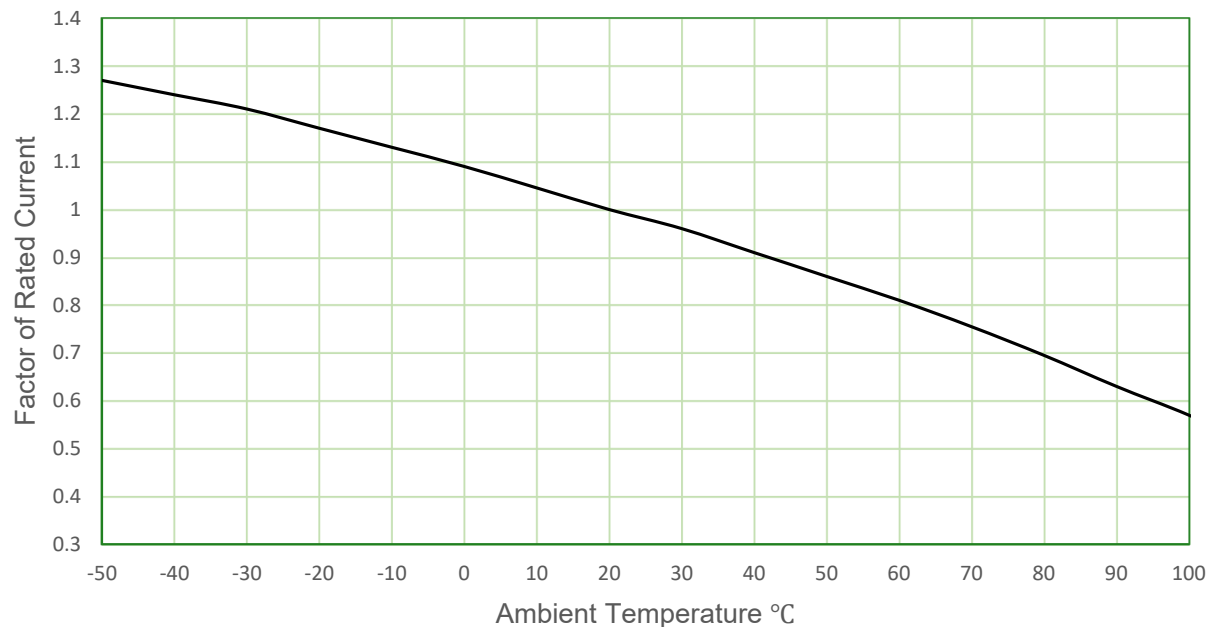


TEMPERATURE DERATING CURVE

EF8xxx80L



EF8xxx81L



TRANSPORTATION and STORAGE

During transportation and storage, the 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 the 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 humidity's are permitted at lower temperatures, e.g., 90 % at 20°C;
- Under these conditions, moderate condensation may occasionally occur due to variation in temperature.

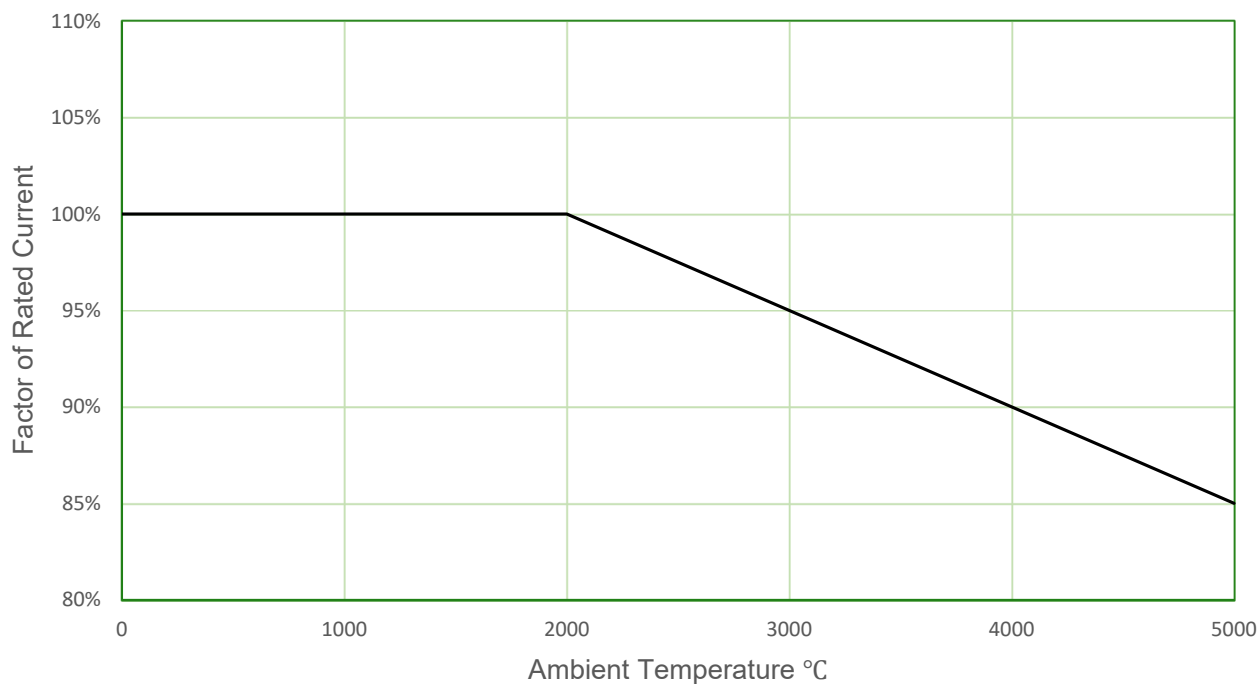
For operating conditions other than above, please contact the manufacturer.

VIBRATION

These fuses meet UL248-20 Section 8.6.2.3 Vibration Test C requirement, can be use on Electrical Vehicle application.

Re-rating with HIGH ALTITUDE

The formula for calculating current load at high altitude: $I = I_n * (1 - (h-2000)/100 * (0.5/100))$ h is altitude, less than 5000.



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)
EF8xxx80L	127	96	49	10	18	18.360	19.692	330	300	200
EF8xxx81L	100	80	43	2	35	11.270	12.717	385	250	210

WEB RESOURCES

Download the latest technical documents: www.adlerelectric.com. Specifications are subject to change without notice.