EF3 PU Fuse

Description

Adler EF3 series ESS fuses are engineered and manufactured for use in Industrial ESS and Power Distribution Protection, made from the highest quality materials and tested to the highest standards. With currents from 150A - 700A with a breaking capacity of 50kA.

Agency Information

- Designed to UL 248-20, ISO 8820-8, GB/T 31465
- UL Recognized Component
- Manufactured under IATF 16949 quality system
- RoHS and REACH Compliant

Features

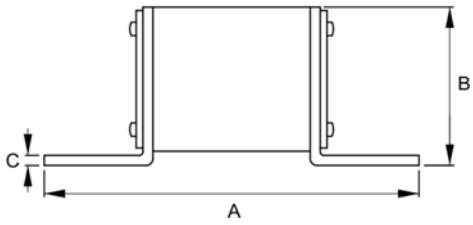
- Reliable clearing of DC fault currents
- High cycling performance
- Low watt losses
- Ultra-compact size and power density
- High breaking capacity to 50kA
- Operation as low as 410% I_n overload protection
- QR code marks on each fuse for traceability

Part Numbering System

EF3 250 S 22 0

- 0 — Default: 0
- 22 — Size: 20
- S — Applications: PU
- 250 — Ampere Code: See Table 2
- EF3 — Product Series: EF3

Dimensions (mm):



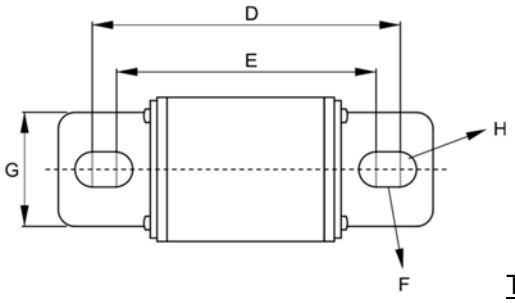


Table 1

Fuse Size	A mm	B mm	C±0.1 mm	D mm	E mm	F mm	G mm	H mm
36x22	77±1	25.0±1	2	62±0.8	49.5±.0.8	6.25±0.8	20.0±0.5	Φ8.5±0.5
36x37	79±1.5	24.0±1	2	62.5±1.0	49.5±.1.0	6.5±1.0	32.3±1.0	Φ8.5±0.5
36x37	77±1.5	31.85±1	2	59.0±1.0	51.0±1.0	4.0±1.0	30.0±0.5	Φ8.5±0.3

Electrical Specifications

Table 2

Size (mm)	Part Number	Rated Current	Ampere Code	Rated Voltage	Breaking Capacity		Pre-arcing	Watt Loss (W)
					UL **	Self-Certified	A^2sec	1.0In
36x22	EF3150S220	150 A	150	200 Vdc 315 Vdc	4.1In~50 kA@200 Vdc	6kA@315 Vdc	4500	23.1
	EF3175S220	175 A	175	200 Vdc 315 Vdc	4.1In~50 kA@200 Vdc	6kA@315 Vdc	6600	25.2
	EF3200S220	200 A	200	200 Vdc 315 Vdc	4.1In~50 kA@200 Vdc	6kA@315 Vdc	8500	27.5
	EF3250S220	250 A	250	200 Vdc 315 Vdc	4.1In~50 kA@200 Vdc	6kA@315 Vdc	16000	30.5
	EF3300S220	300 A	300	200 Vdc	4.1In~50 kA@200 Vdc	-	29000	34.3
	EF3350S220	350 A	350	200 Vdc	○	50 kA@200 Vdc	31500	37.5
36x37	EF3350S370	350 A	350	250 Vdc	4.1In~50 kA@250 Vdc	-	28750	44.5
	EF3400S370	400 A	400	250 Vdc	4.1In~50 kA@250 Vdc	-	43700	45.5
	EF3450S370	450 A	450	250 Vdc	4.1In~50 kA@250 Vdc	-	56350	57.0
	EF3500S370	500 A	500	250 Vdc	4.1In~50 kA@250 Vdc	-	67600	61.3
36x37	EF3600S37A	600 A	600	150 Vdc	○	50 kA@150 Vdc	82000	66.0
	EF3700S37A	700 A	700	150 Vdc	○	50 kA@150 Vdc	128000	75.0

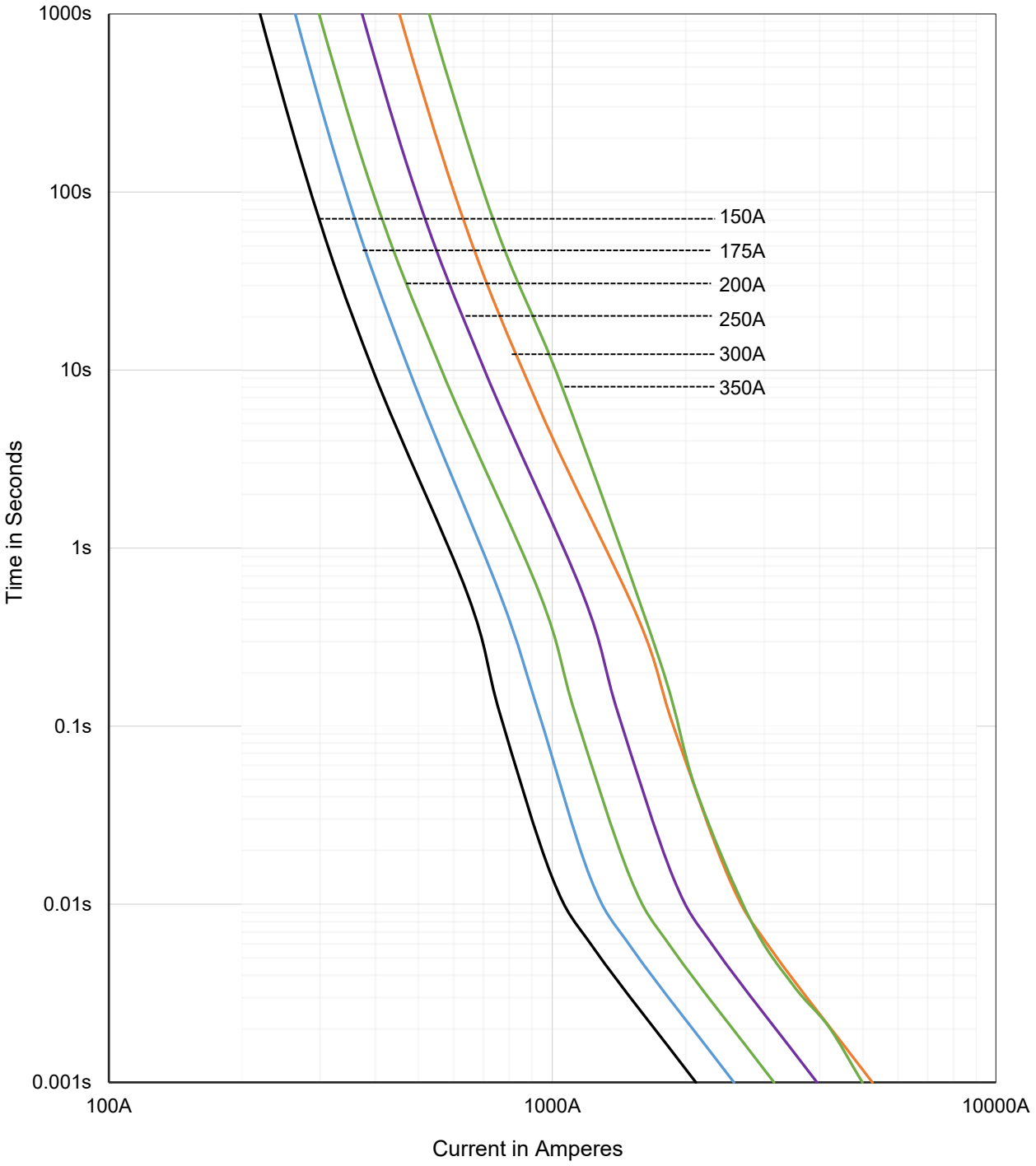
1. ** --- UL File: E506668
2. ○ --- UL certification in process
3. I2t is measured with 10In.
4. Recommend tightening torque is 12±1.0 Nm (M8);

TIME VS CURRENT CHARACTERISTIC

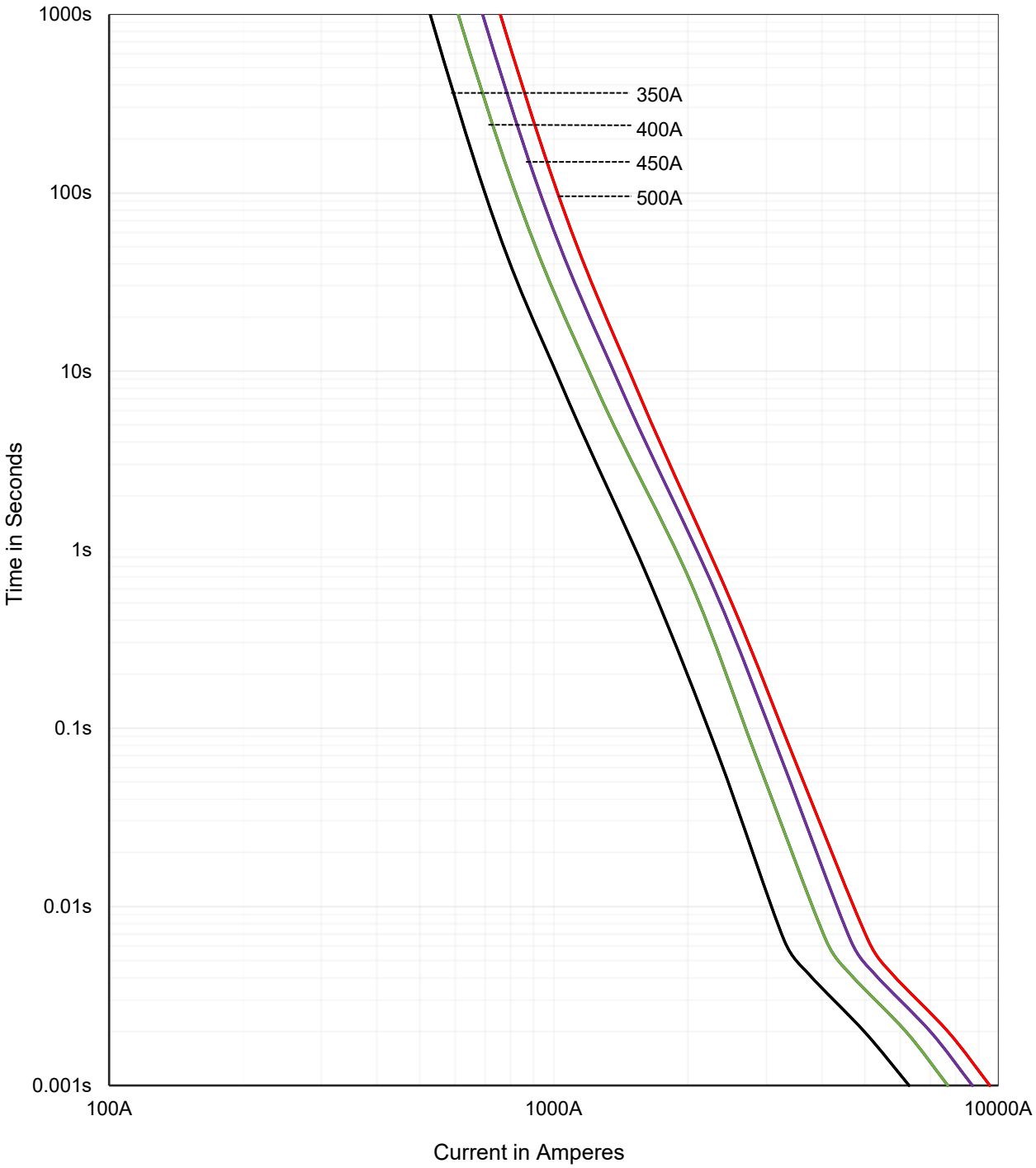
Part Number	200%	300%	500%
EF3xxxS370	1 – 300s	0.2 – 30s	0.1 - 10s

Time Current Curve

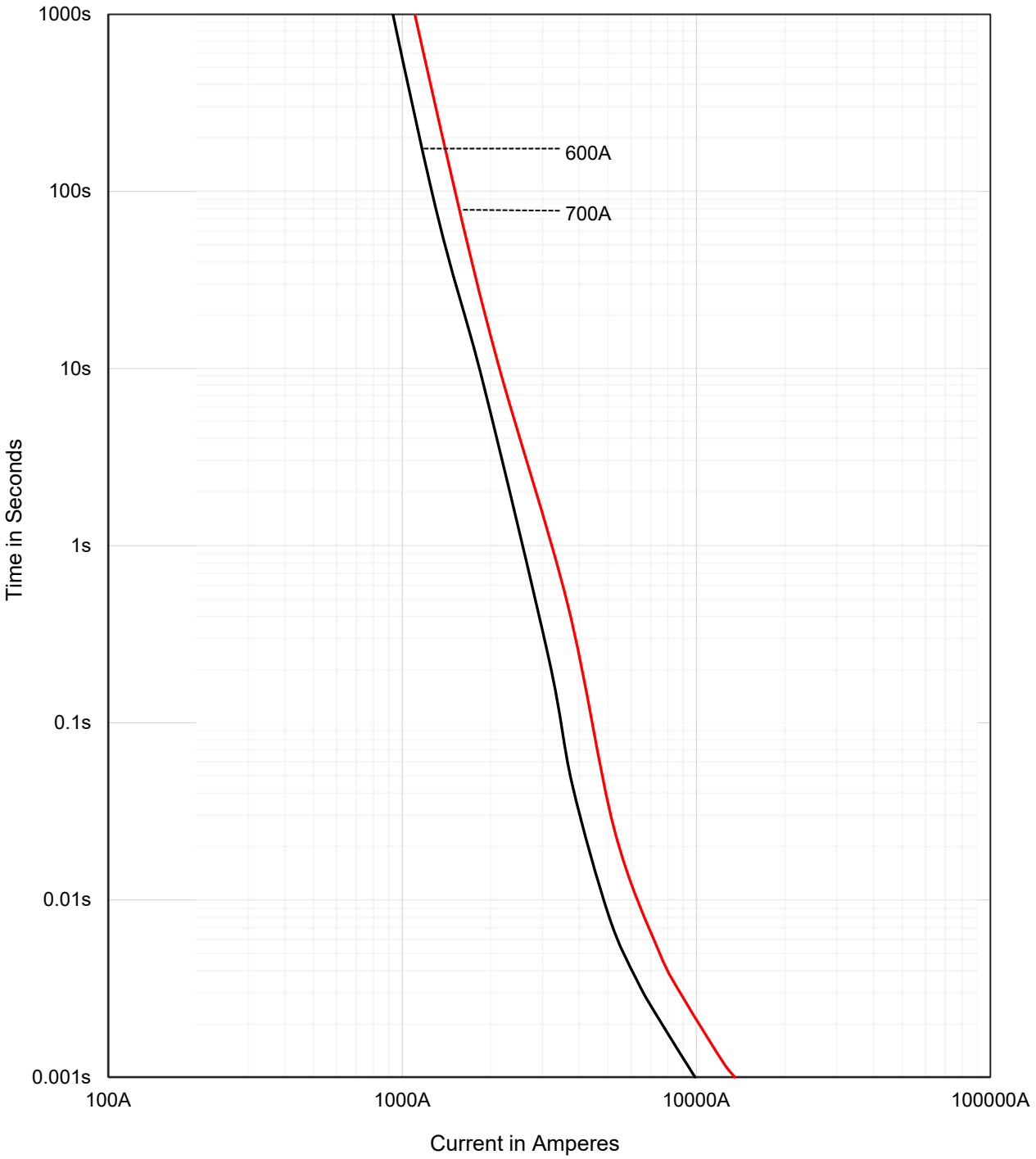
EF3xxxS220



EF3xxxS370

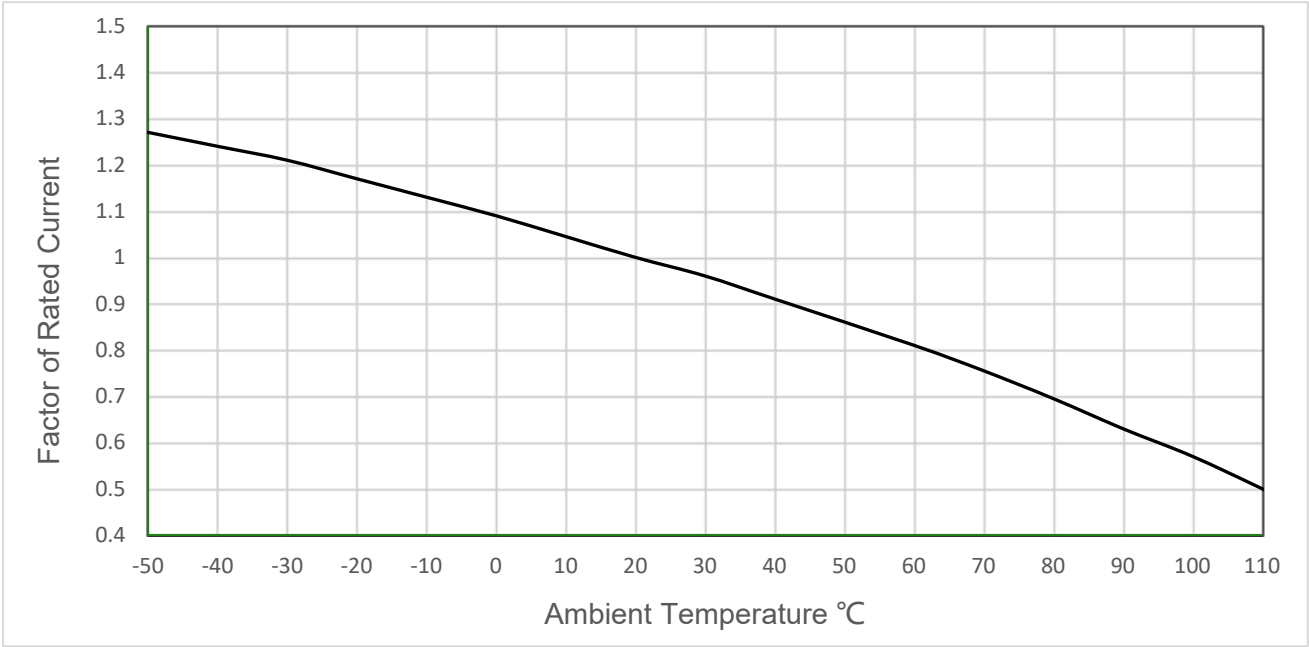

1000s
100s
10s
1s
0.1s
0.01s
0.001s
Time in Seconds
350A
400A
450A
500A
100A
1000A
10000A
Current in Amperes

EF3xxxS37A

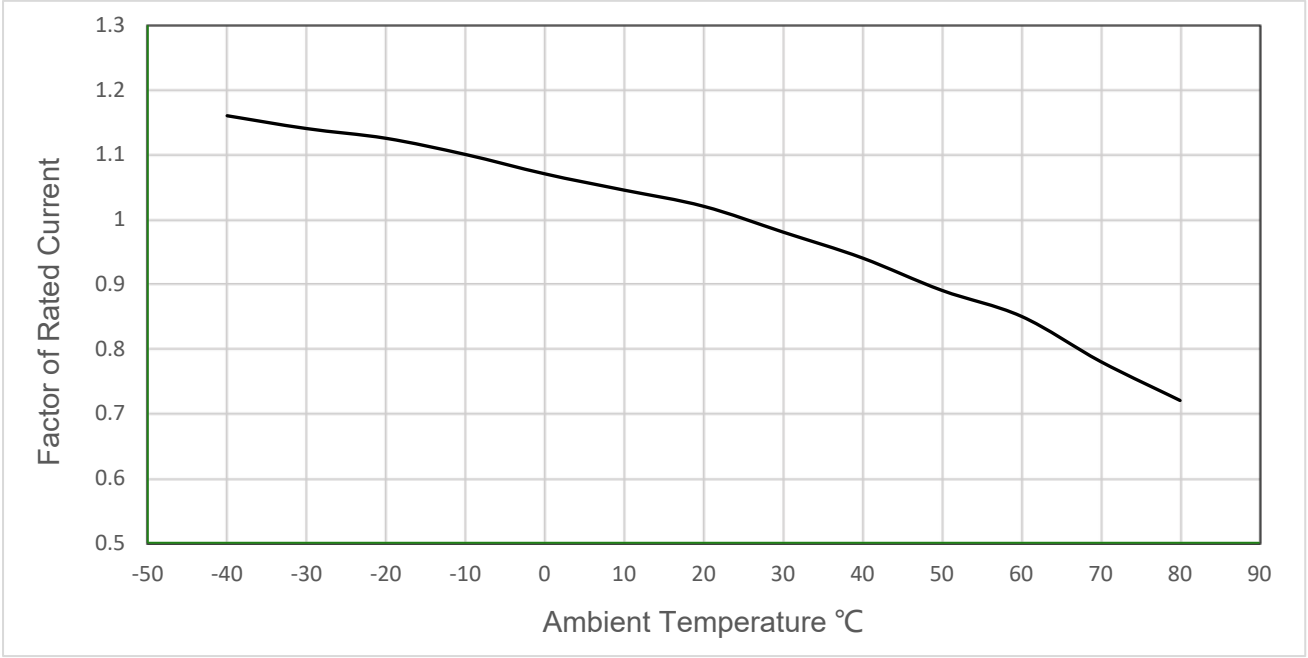

1000s
100s
10s
1s
0.1s
0.01s
0.001s
Time in Seconds
600A
700A
100A
1000A
10000A
100000A
Current in Amperes

TEMPERATURE DERATING CURVE

EF3xxxS220 and EF3xxxS37A



EF3xxxS370



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℃ to 40℃;
- 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℃;
- Higher relative humidity's are permitted at lower temperatures, e.g., 90 % at 20℃;
- Under these conditions, moderate condensation may occasionally occur due to variation in temperature.

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

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)
EF3xxxS220	145	85	55	12	18	15.919	17.28	320	320	200
EF3xxxS370	100	80	43	3	35	12.810	14.469	385	250	210
EF3xxxS37A	158	85	38	4	24	13.152	14.237	330	280	170

Web Resources

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