

AHE 4# ESS FUSES



DESCRIPTION

Adler AHE4# ESS series power fuses are specially engineered and tested to provide excellent protection performance in Industrial ESS and Power Distribution Protection. With currents from 630A to 1800A with a breaking capacity of 250kA.

AGENCY INFORMATION

- Comply with IEC 60269-1/IEC 60269-4/IEC 60269-7
- Approval: UL & TUV & CCC
- IATF 16949 quality system
- RoHS and REACH Compliant

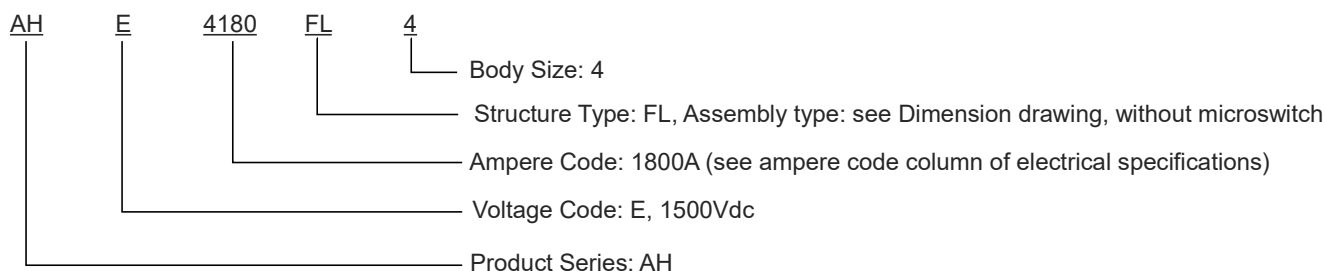
APPLICATIONS

- Industrial ESS and BESS protection
- Power Distribution Protection

FEATURES

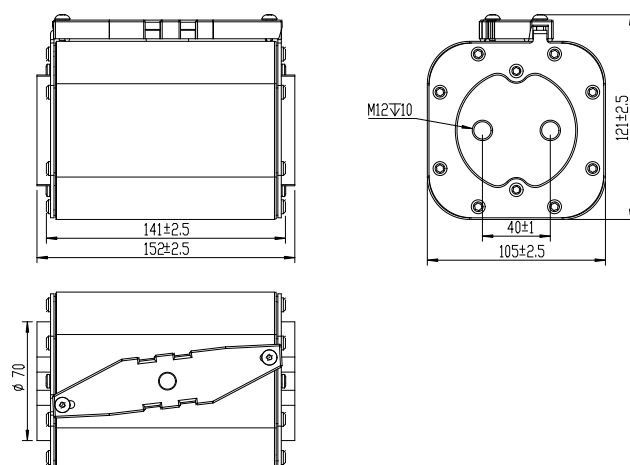
- Rated Voltage: 1500 Vdc
- Amperage Rating: 630A-1800A
- Time Constant: 1~3ms
- Rated Voltage: 1500 Vdc
- Class Type: aR (IEC60269-4), aBat (IEC60269-7)
- Strong current limiting capacity
- AHE series PN in this datasheet is without microswitch
- Optional microswitch available PN: MS0003

PART NUMBERING SYSTEM



DIMENSIONS (mm)

AHE4180FL4



Box specifications (mm)	Packing quantity / per container	Weight / PCS (g) without microswitch	Recommended Screw	Recommended tightening torque (N·m)
410×215×160	2pcs	4500±5%	M12	46±1

ELECTRICAL SPECIFICATIONS

Size	Item No.	Flush	Ampere Code	Rated Current / A	Rated Voltage / Vdc	Breaking Capacity	I ² t (A ² s)		Power Loss / W 100% Rated
							Pre-Arcing	Total	
ESS 4#	1	AHE3630FL4	3630	630	1500	250kA	16700	990000	185
	2	AHE3700FL4	3700	700	1500	250kA	189000	1270000	196
	3	AHE3800FL4	3800	800	1500	250kA	280000	1910000	205
	4	AHE3900FL4	3900	900	1500	250kA	4365000	2890000	209
	5	AHE4100FL4	4100	1000	1500	250kA	644163	4190000	213
	6	AHE4110FL4	4110	1100	1500	250kA	796700	4879000	238
	7	AHE4125FL4	4125	1250	1500	250kA	1106600	7370000	248
	8	AHE4140FL4	4140	1400	1500	250kA	1590000	10300000	279
	9	AHE4150FL4	4150	1500	1500	250kA	1870000	12140000	293
	10	AHE4160FL4	4160	1600	1500	250kA	2278000	14580000	294
	11	AHE4180FL4	4180	1800	1500	250kA	3154589	20470000	325

TUV File: 50601549 (IEC60269-4) / 50608025 (IEC60269-7)

UL File: E485737

CCC File: 2023000308000087

OPERATION CONDITIONS

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

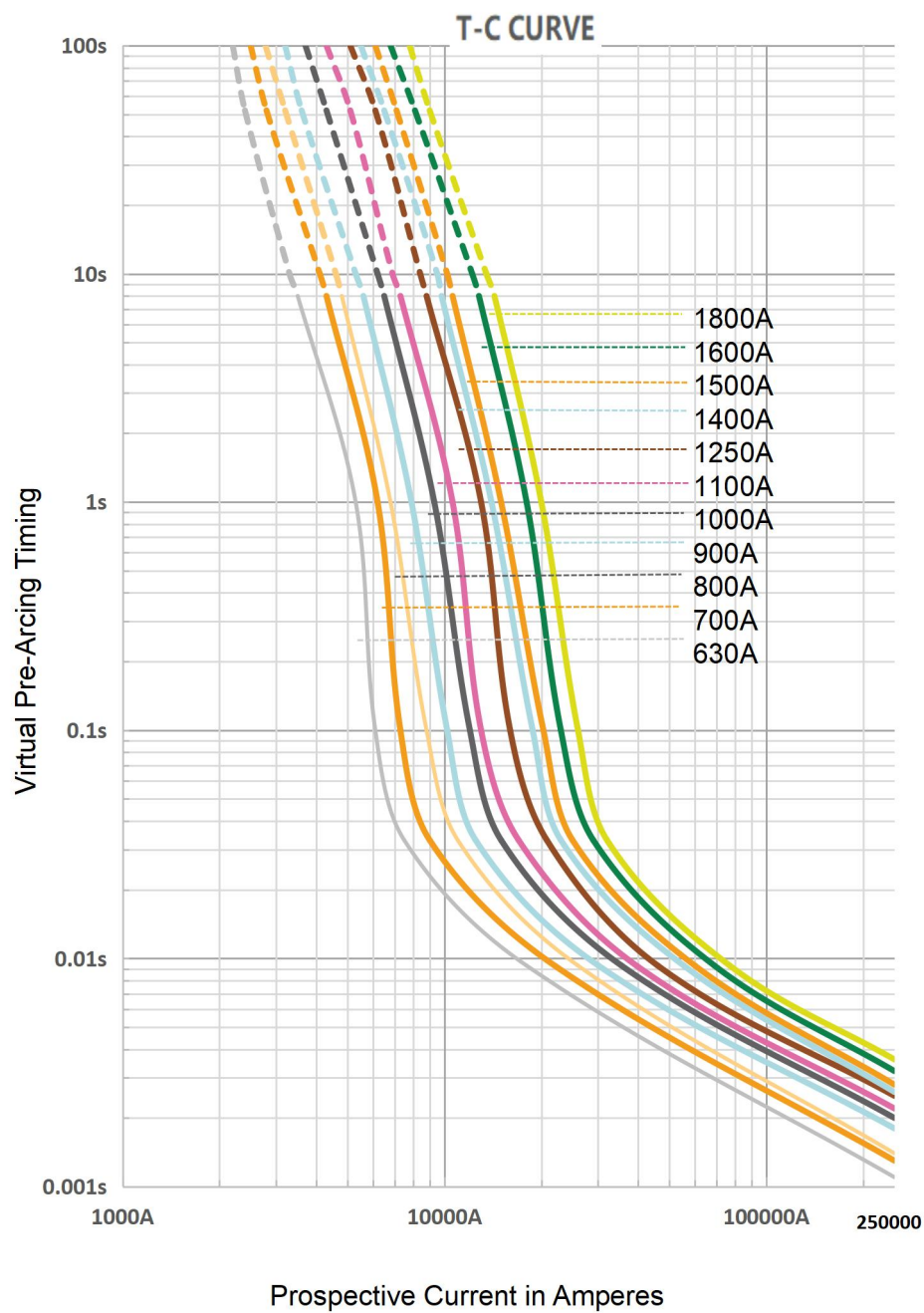
- Normal temperature: $-5^{\circ}\text{C} \sim 40^{\circ}\text{C}$, permissible operating temperature: $-40^{\circ}\text{C}-120^{\circ}\text{C}$.
- The altitude of the site of installation of the fuses should not exceed 2000 m above sea level and permissible altitude site of installation does not exceed 5000m.
- The air should be clean and it's relative humidity does not exceed 50% at the maximum temperature of 40°C .
- Higher relative humidity is permitted at lower temperatures, e.g. 90% at 20°C .
- Pollution grade III.
- Under these conditions, moderate condensation may occasionally occur due to variation in temperatures.
- For operating conditions other than above, please contact manufacturer.

STORAGE

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

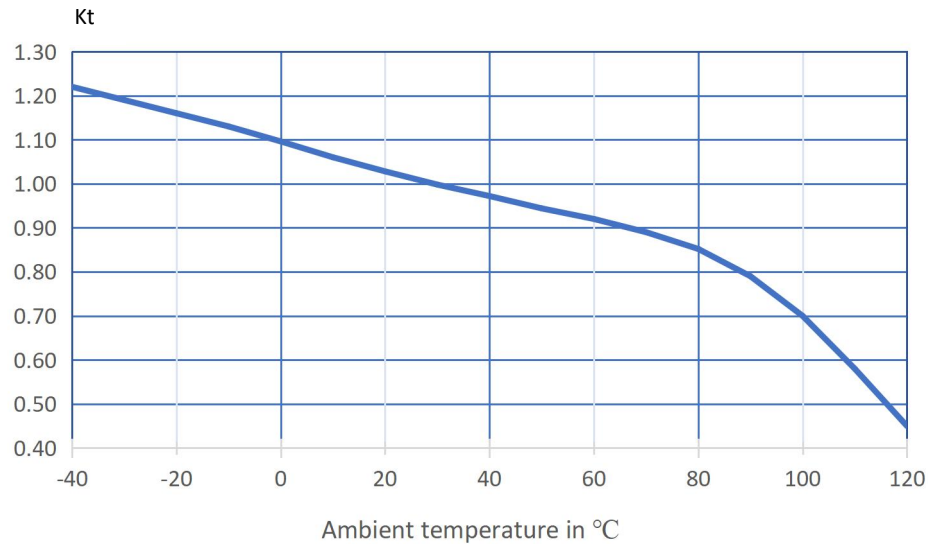


TIME CURRENT CURVE



Temperature Correction Curve

When the fuse is operating below -5°C or above 40°C , the rated current needs additional modification. The correction factor is K_t .



WEB RESOURCES

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

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