

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

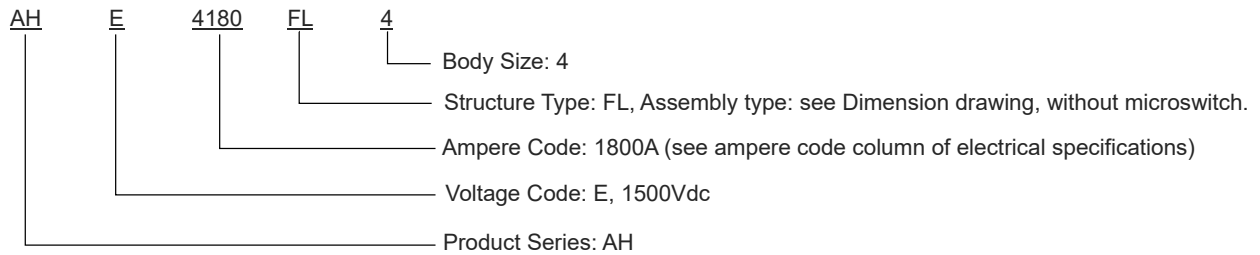
FEATURES

- Rated Voltage: 1500 Vdc
 - Amperage Rating: 630A-1800A
 - Time Constant: 10~15ms
 - 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

APPLICATIONS

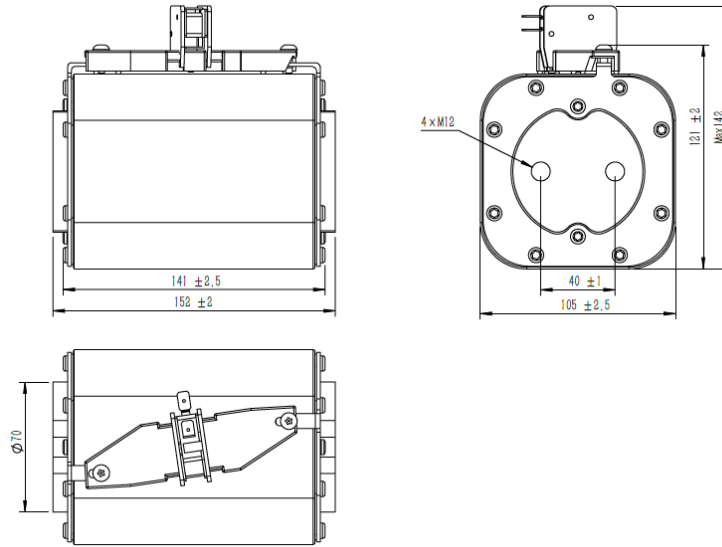
- Industrial ESS and BESS protection
- Power Distribution Protection

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:**

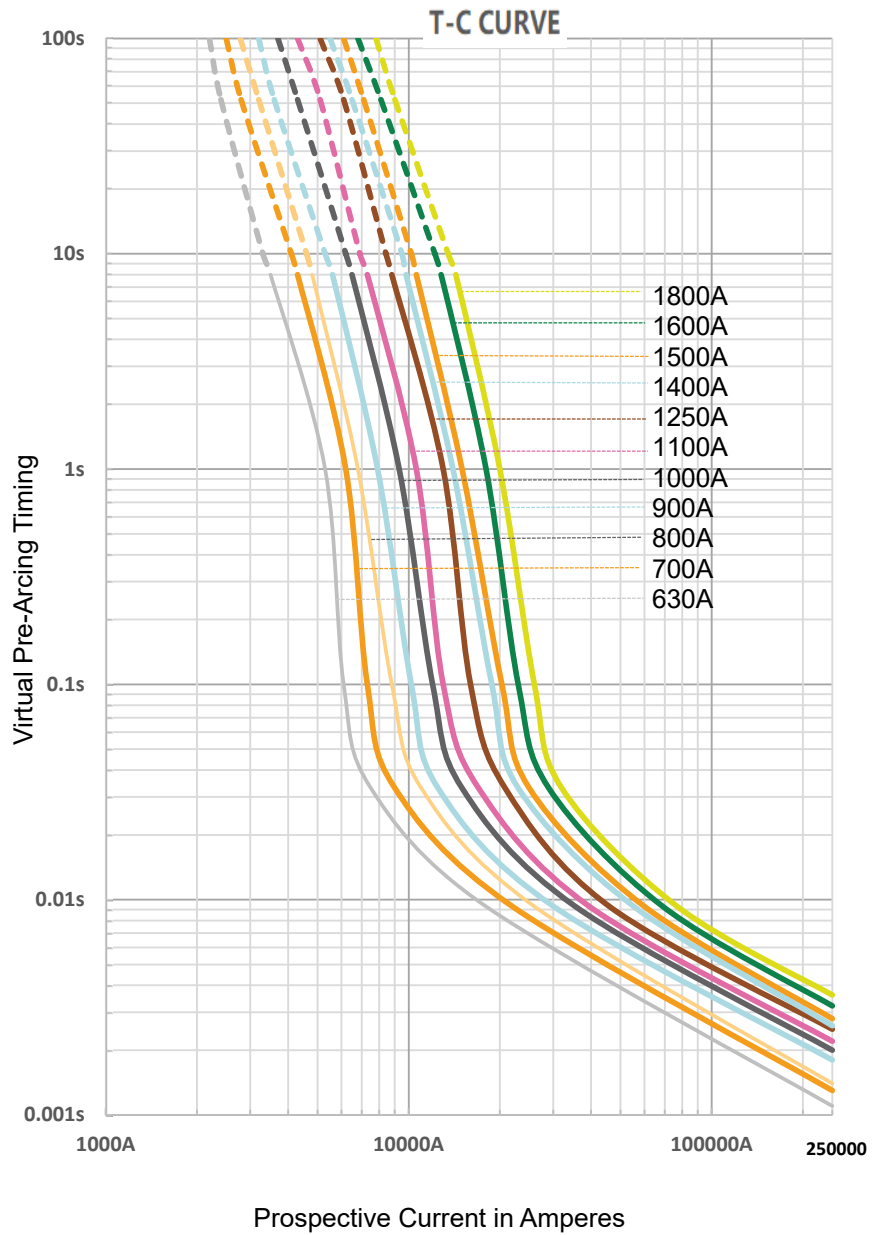
Where the following conditions apply, fuses complying with this standard are deemed capable of operating satisfactorily without further qualification.

- 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.

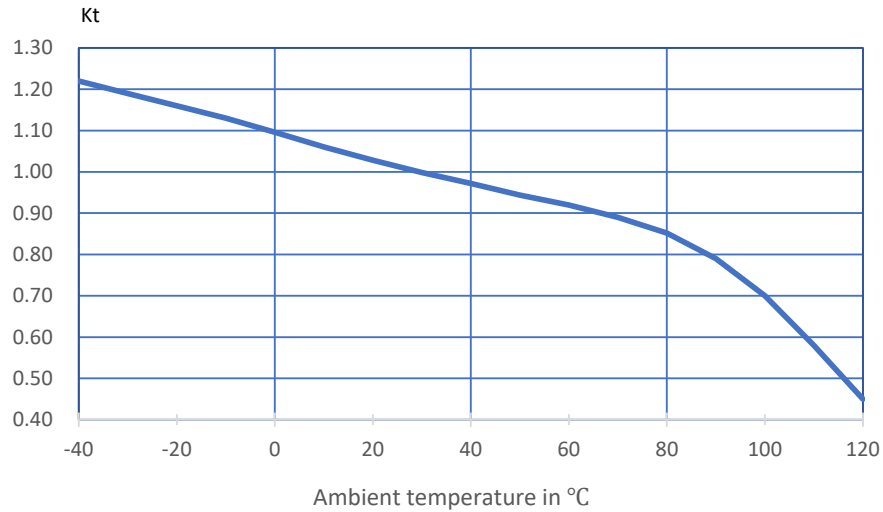
STORAGE:

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



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.