



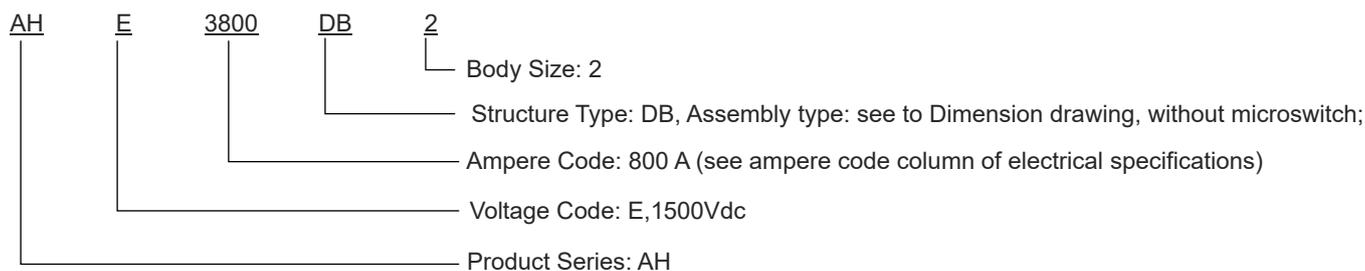
## AHE ESS FUSES



### FEATURES

- Application: Industrial ESS
- Rated Voltage: 1500Vdc
- Amperage Rating: 200A-800A
- Breaking Capacity: 250kA
- Time Constant: 3~5ms
- Class Type: aR
- Ref. standard: IEC 60269-1/IEC 60269-4
- Certification: UL, TUV
- Environmental: RoHS Compliant/REACH declaration available upon request
- Advantage: Strong current limiting capacity
- AHE series PN in this datasheet is without microswitch  
The microswitch is optional. PN: MS0003

### PART NUMBERING SYSTEM



### OPERATION CONDITION:

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

- ✧ Normal temperature: -5°C~40°C;
- ✧ The altitude of the site of installation of the fuses does not exceed 2000 m above sea level;
- ✧ The air is clean and its 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;
- ✧ Under these conditions, moderate condensation may occasionally occur due to variation in temperature.
- ✧ For operation condition other than above, please contact manufacturer.

### STORAGE:

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

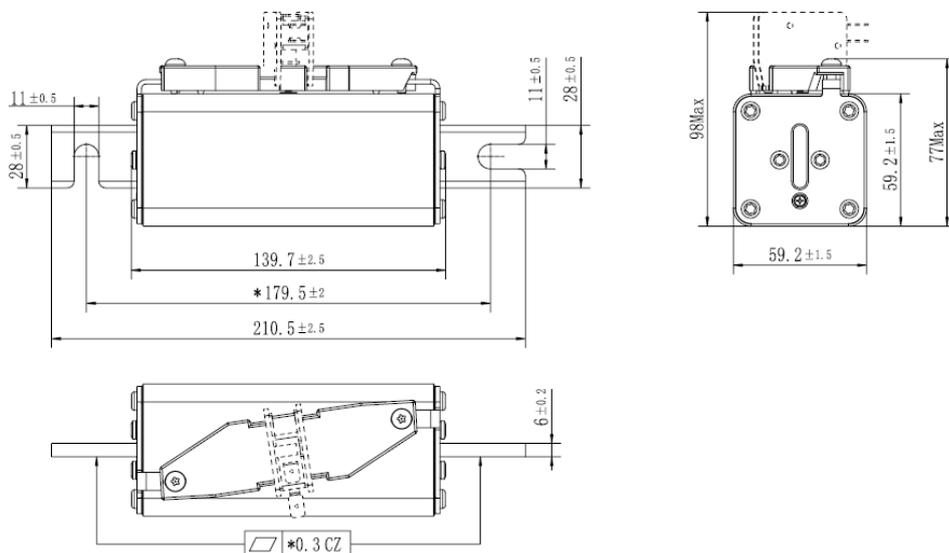




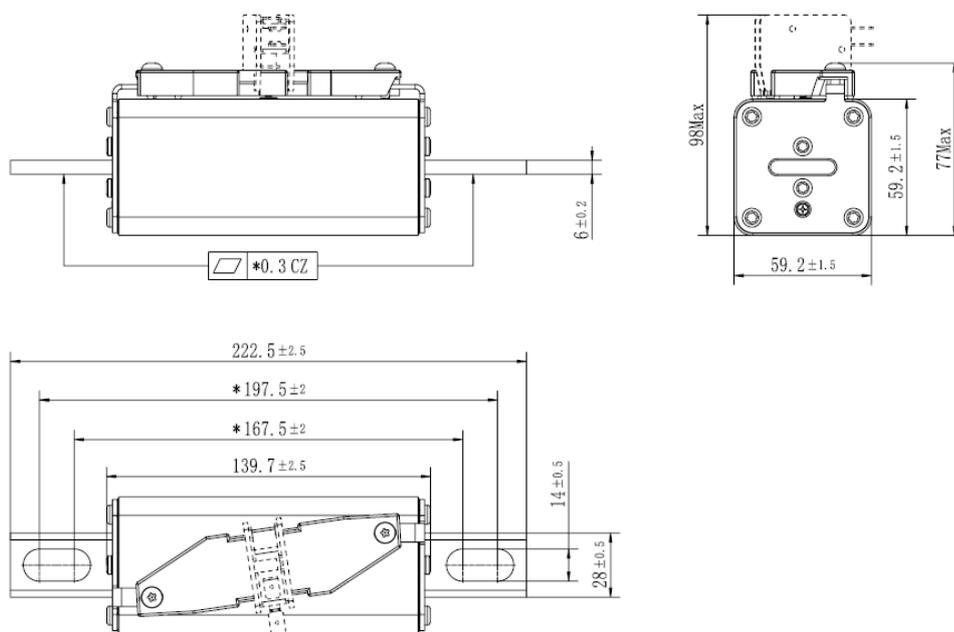
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**DIMENSIONS (mm):**

**AHE3800DB2:**



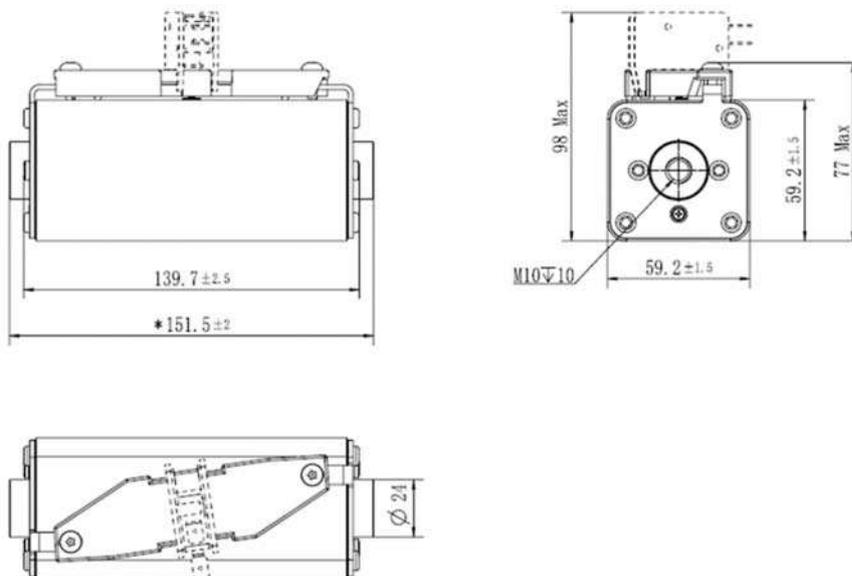
**AHE3800UB2:**



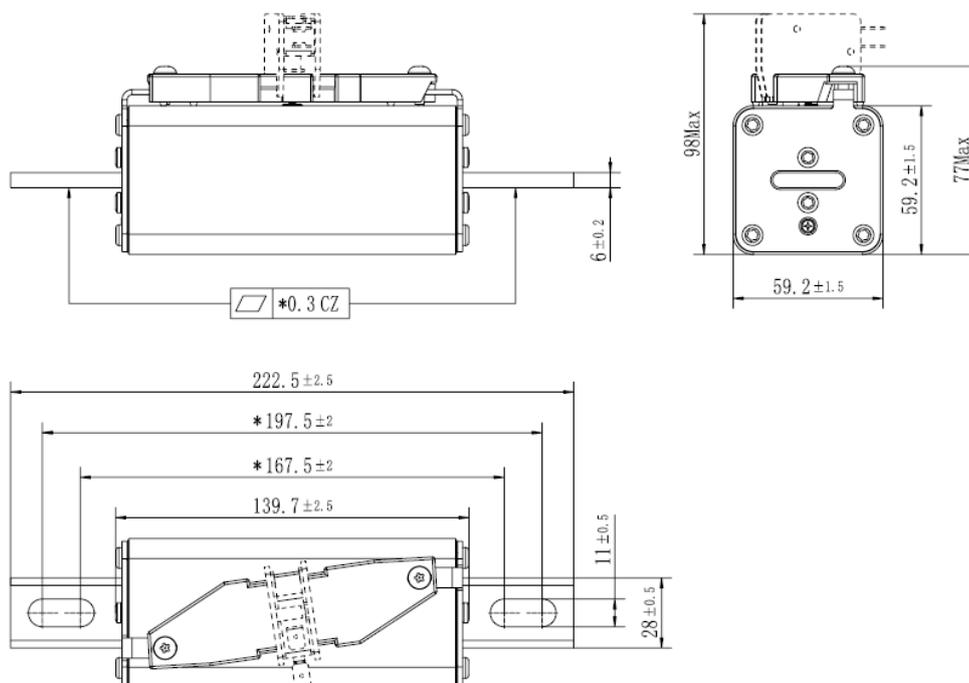


PU ESS FUSES LINKS

AHE3800FL2:

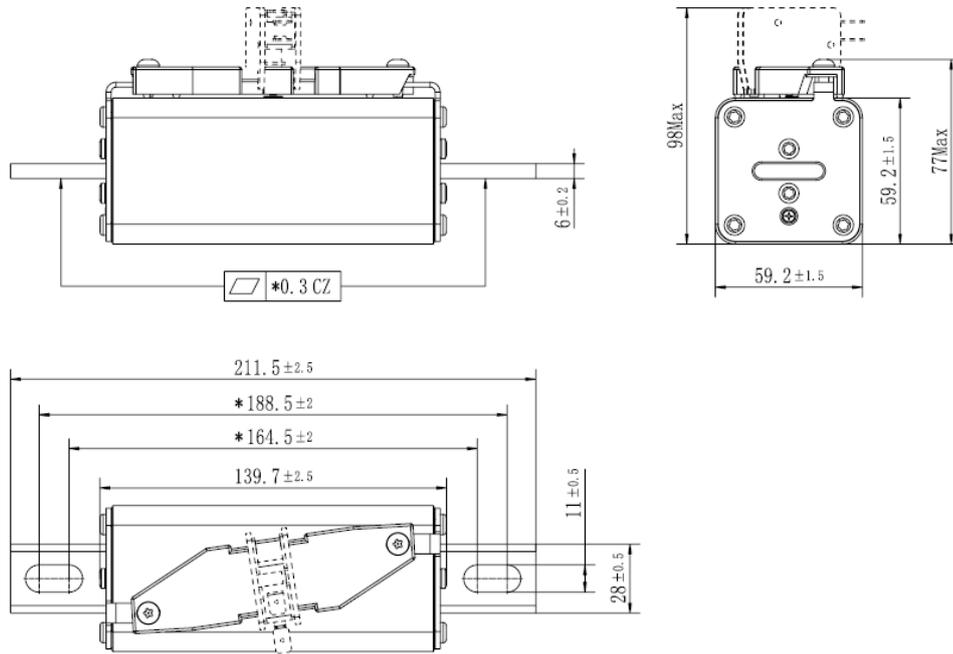


AHE800CUB2:





AHE0800UB2:



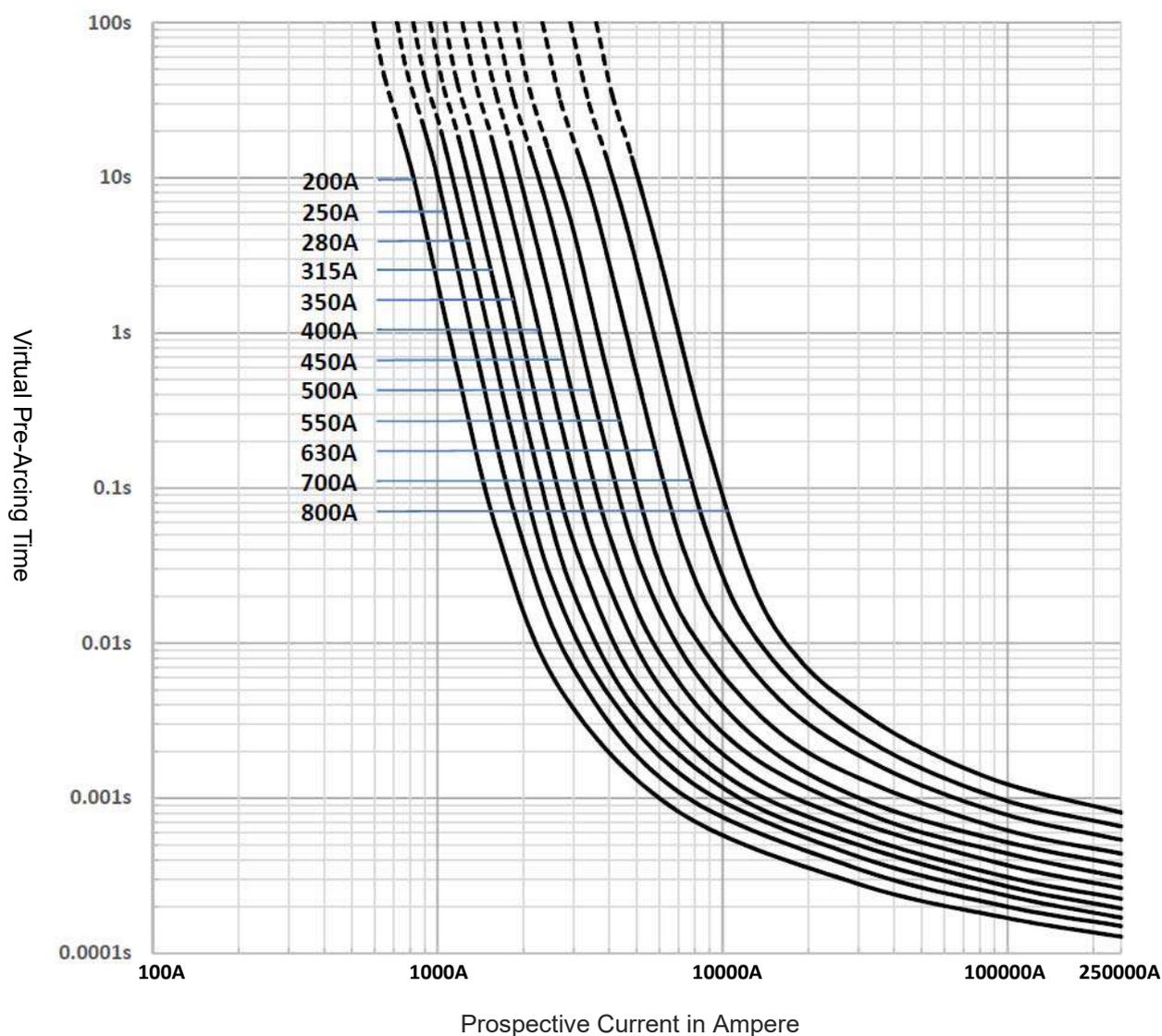

**PU**
**ESS FUSES LINKS**
**ELECTRICAL SPECIFICATIONS**

Size	Item No.	Part Number					Ampere Code	Rated Current /A	Rated Voltage /Vdc	Breaking Capacity	I <sup>2</sup> t(A <sup>2</sup> s)		Power Loss/W_100% Rated
		Din	Bolted	Flush	Customize						Pre-Arcing	Total	
ESS 2#	1	AHE3200DB2	AHE3200UB2	AHE3200FL2	AHE200CUB2	AHE0200UB2	3200	200	1500	250kA	12900	32508	90.0
	2	AHE3250DB2	AHE3250UB2	AHE3250FL2	AHE250CUB2	AHE0250UB2	3250	250	1500	250kA	20667	52702	113.0
	3	AHE3280DB2	AHE3280UB2	AHE3280FL2	AHE280CUB2	AHE0280UB2	3280	280	1500	250kA	24704	63737	125.6
	4	AHE3315DB2	AHE3315UB2	AHE3315FL2	AHE315CUB2	AHE0315UB2	3315	315	1500	250kA	34406	89799	133.8
	5	AHE3350DB2	AHE3350UB2	AHE3350FL2	AHE350CUB2	AHE0350UB2	3350	350	1500	250kA	45240	119433	143.0
	6	AHE3400DB2	AHE3400UB2	AHE3400FL2	AHE400CUB2	AHE0400UB2	3400	400	1500	250kA	64361	171844	159.3
	7	AHE3450DB2	AHE3450UB2	AHE3450FL2	AHE450CUB2	AHE0450UB2	3450	450	1500	250kA	85836	231757	168.9
	8	AHE3500DB2	AHE3500UB2	AHE3500FL2	AHE500CUB2	AHE0500UB2	3500	500	1500	250kA	109226	298187	183.2
	9	AHE3550DB2	AHE3550UB2	AHE3550FL2	AHE550CUB2	AHE0550UB2	3550	550	1500	250kA	134094	370099	204.4
	10	AHE3630DB2	AHE3630UB2	AHE3630FL2	AHE630CUB2	AHE0630UB2	3630	630	1500	250kA	194817	543539	213.2
	11	AHE3700DB2	AHE3700UB2	AHE3700FL2	AHE700CUB2	AHE0700UB2	3700	700	1500	250kA	263007	741680	236.5
	12	AHE3800DB2	AHE3800UB2	AHE3800FL2	AHE800CUB2	AHE0800UB2	3800	800	1500	250kA	389471	1109993	253.4





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TIME CURRENT CURVE



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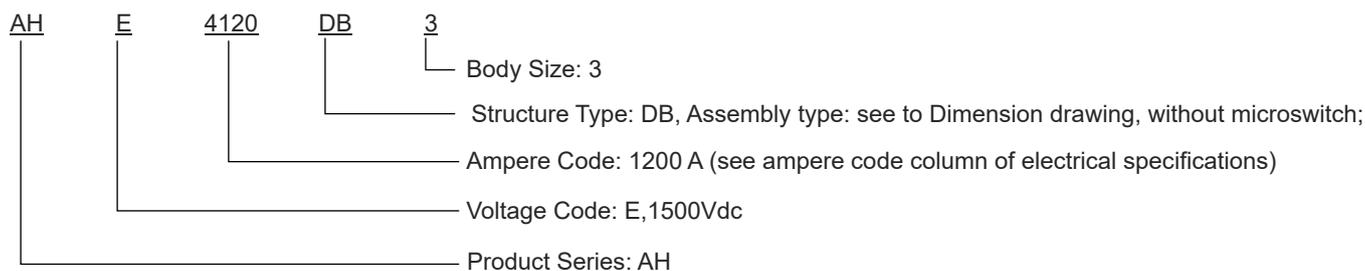
## AHE ESS FUSES



### FEATURES

- Application: Industrial ESS
- Rated Voltage: 1500Vdc
- Amperage Rating: 315A-1200A
- Breaking Capacity: 250kA
- Time Constant: 3~5ms
- Class Type: aR
- Ref. standard: IEC 60269-1/IEC 60269-4
- Certification: UL, TUV
- Environmental: RoHS Compliant/REACH declaration available upon request
- Advantage: Strong current limiting capacity
- AHE series PN in this datasheet is without microswitch  
The microswitch is optional. PN: MS0003

### PART NUMBERING SYSTEM



### OPERATION CONDITION:

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

- ✧ Normal temperature: -5°C~40°C;
- ✧ The altitude of the site of installation of the fuses does not exceed 2000 m above sea level;
- ✧ The air is clean and its 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;
- ✧ Under these conditions, moderate condensation may occasionally occur due to variation in temperature.
- ✧ For operation condition other than above, please contact manufacturer.

### STORAGE:

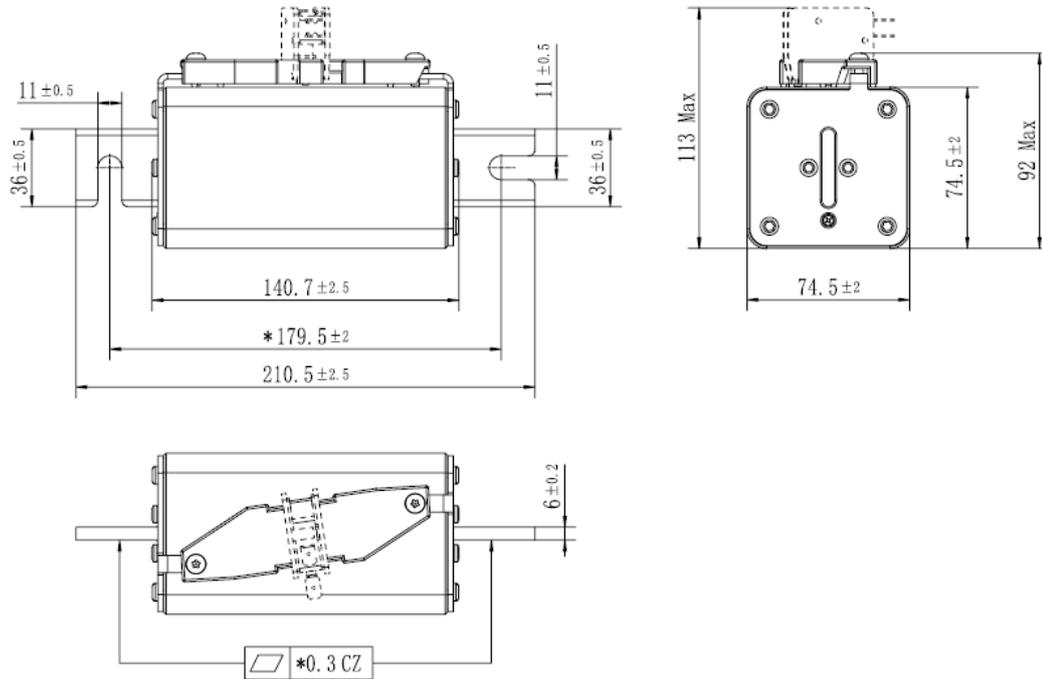
During transportation and storage, Avoid water seepage and mechanical damage.



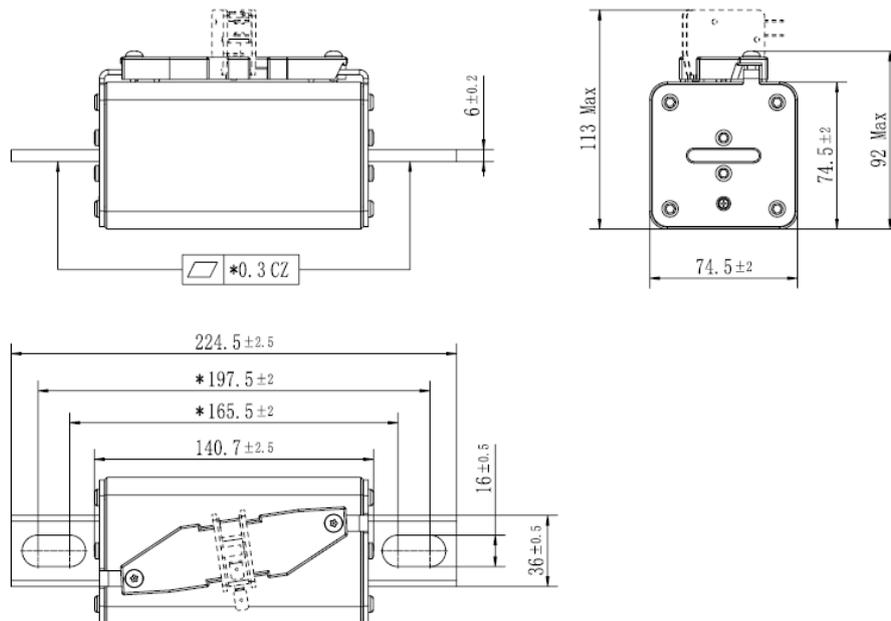


**DIMENSIONS (mm):**

**AHE4120DB3:**



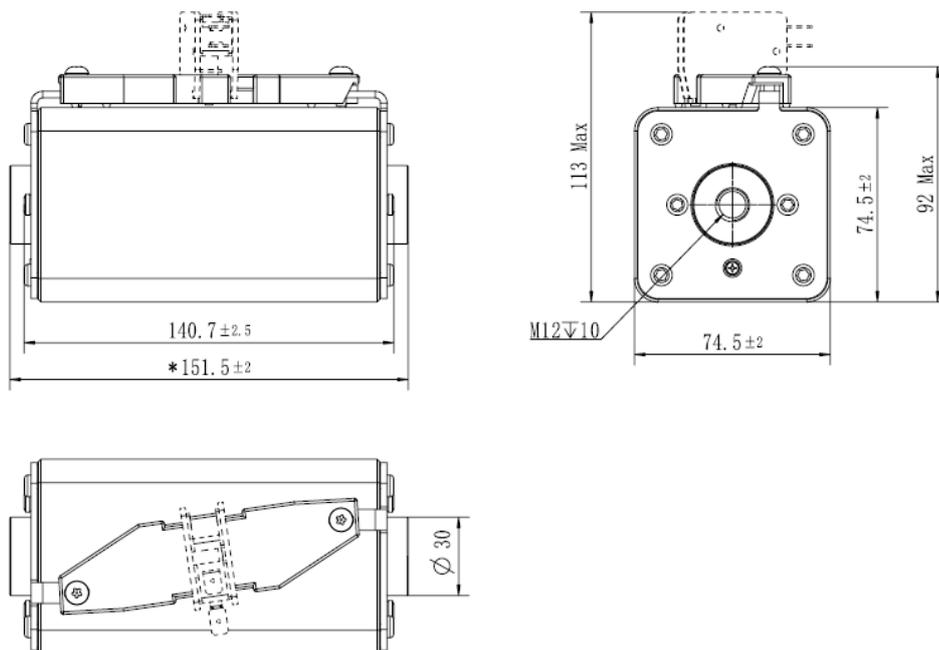
**AHE4120UB3:**



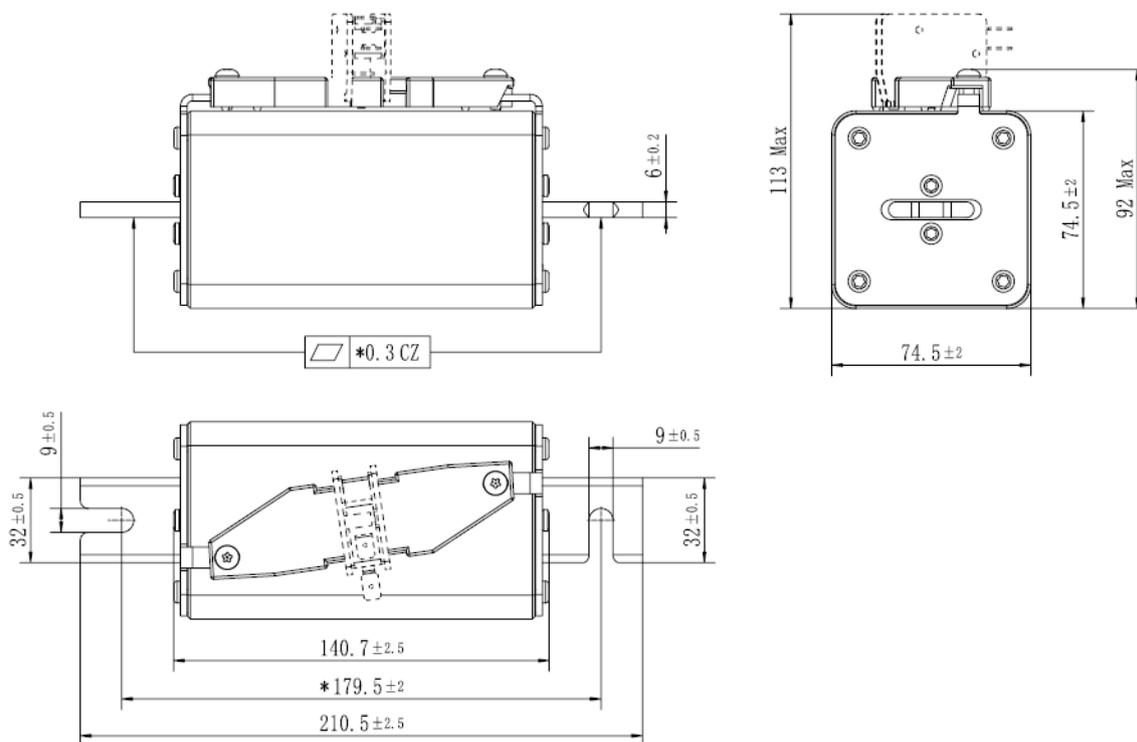


**PU** | **ESS FUSES LINKS**

**AHE4120FL3:**



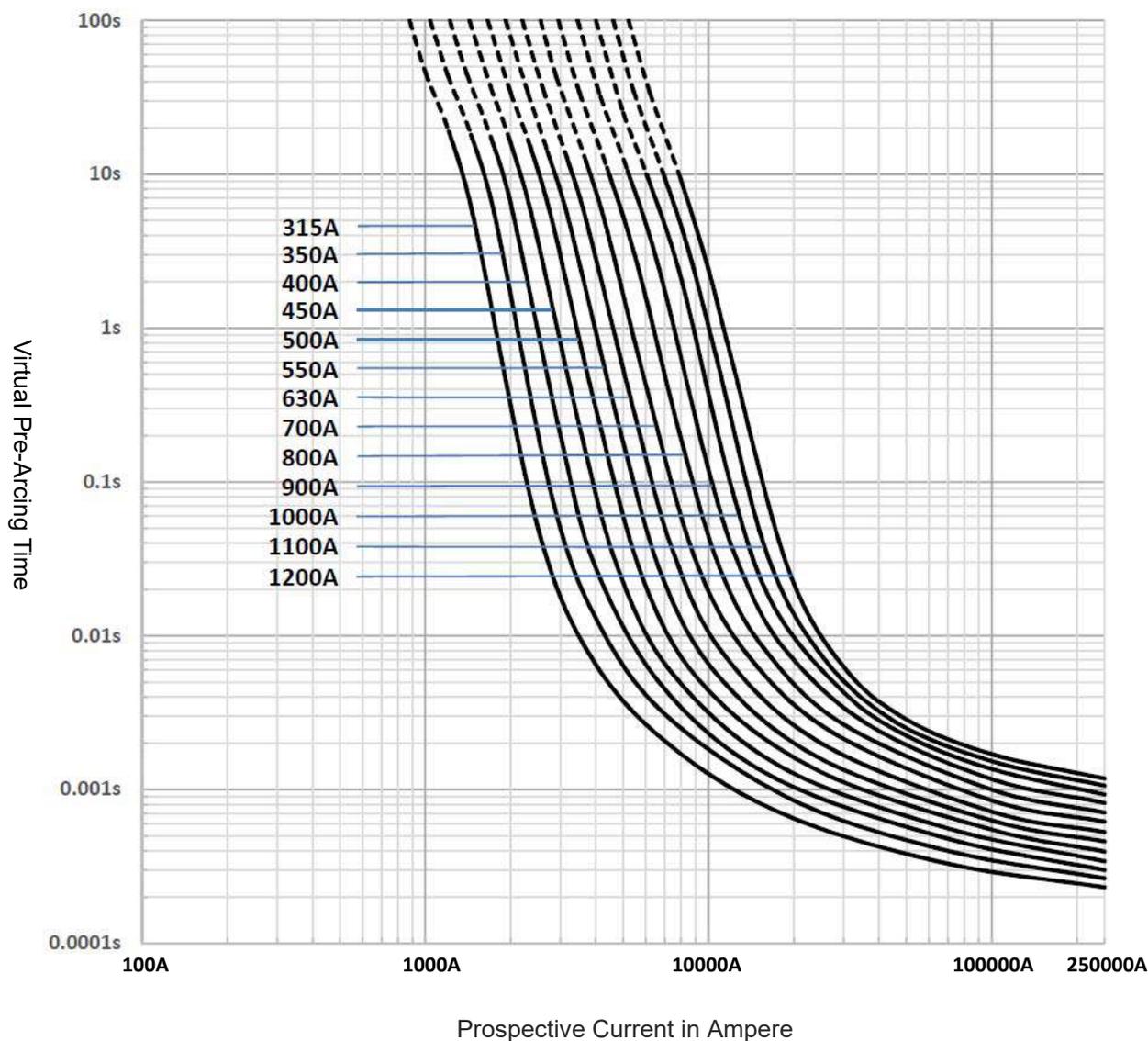
**AHE1200CDB3:**




**PU**
**ESS FUSES LINKS**
**ELECTRICAL SPECIFICATIONS**

Size	Item No.	Part Number				Ampere Code	Rated Current /A	Rated Voltage /Vdc	Breaking Capacity	I <sup>2</sup> t(A <sup>2</sup> s)		Power Loss/W_100% Rated
		Din	Bolted	Flush	Customize					Pre-Arcing	Total	
ESS 3#	1	AHE3315DB3	AHE3315UB3	AHE3315FL3	AHE0315CDB3	3315	315	1500	250kA	21132	76076	129.6
	2	AHE3350DB3	AHE3350UB3	AHE3350FL3	AHE0350CDB3	3350	350	1500	250kA	29035	103654	141.0
	3	AHE3400DB3	AHE3400UB3	AHE3400FL3	AHE0400CDB3	3400	400	1500	250kA	38277	134736	162.7
	4	AHE3450DB3	AHE3450UB3	AHE3450FL3	AHE0450CDB3	3450	450	1500	250kA	54477	189034	178.3
	5	AHE3500DB3	AHE3500UB3	AHE3500FL3	AHE0500CDB3	3500	500	1500	250kA	73708	254293	194.1
	6	AHE3550DB3	AHE3550UB3	AHE3550FL3	AHE0550CDB3	3550	550	1500	250kA	92243	310858	210.7
	7	AHE3630DB3	AHE3630UB3	AHE3630FL3	AHE0630CDB3	3630	630	1500	250kA	130404	429029	235.9
	8	AHE3700DB3	AHE3700UB3	AHE3700FL3	AHE0700CDB3	3700	700	1500	250kA	180848	582330	256.8
	9	AHE3800DB3	AHE3800UB3	AHE3800FL3	AHE0800CDB3	3800	800	1500	250kA	280849	876249	268.0
	10	AHE3900DB3	AHE3900UB3	AHE3900FL3	AHE0900CDB3	3900	900	1500	250kA	404951	1222952	287.8
	11	AHE4100DB3	AHE4100UB3	AHE4100FL3	AHE1000CDB3	4100	1000	1500	250kA	544267	1589259	338.2
	12	AHE4110DB3	AHE4110UB3	AHE4110FL3	AHE1100CDB3	4110	1100	1500	250kA	747801	2108800	347.6
	13	AHE4120DB3	AHE4120UB3	AHE4120FL3	AHE1200CDB3	4120	1200	1500	250kA	1011651	2751692	359.4





**WEB RESOURCES**

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## AHE 4# ESS FUSES



### 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

### 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.

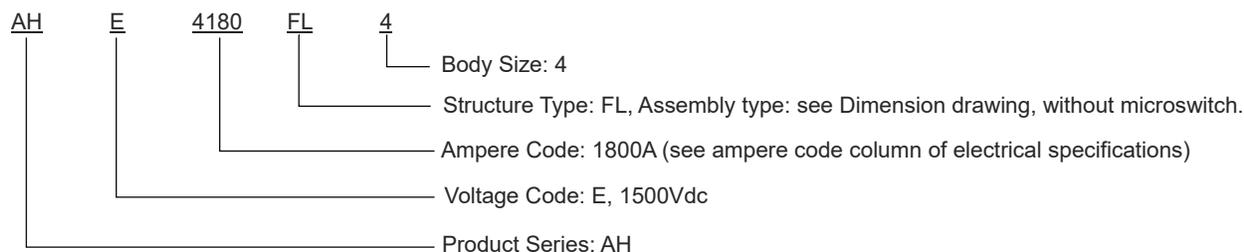
### AGENCY INFORMATION

- 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

### PART NUMBERING SYSTEM



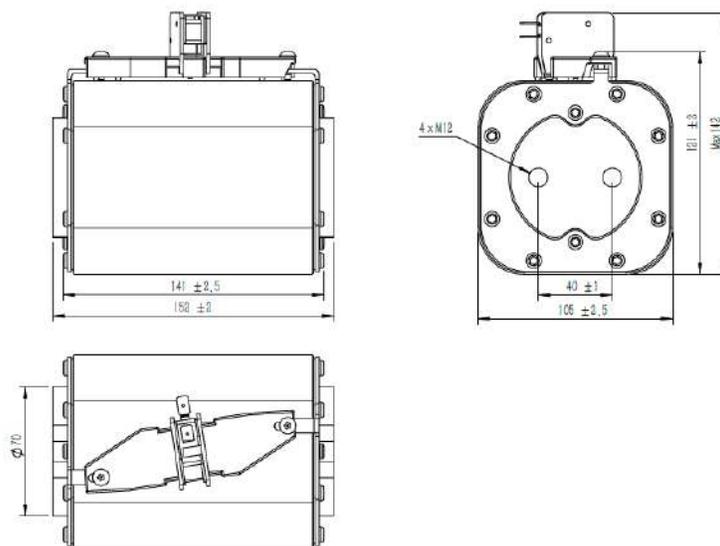


PU

ESS FUSE LINKS

**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 <sup>2</sup> t (A <sup>2</sup> 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:**

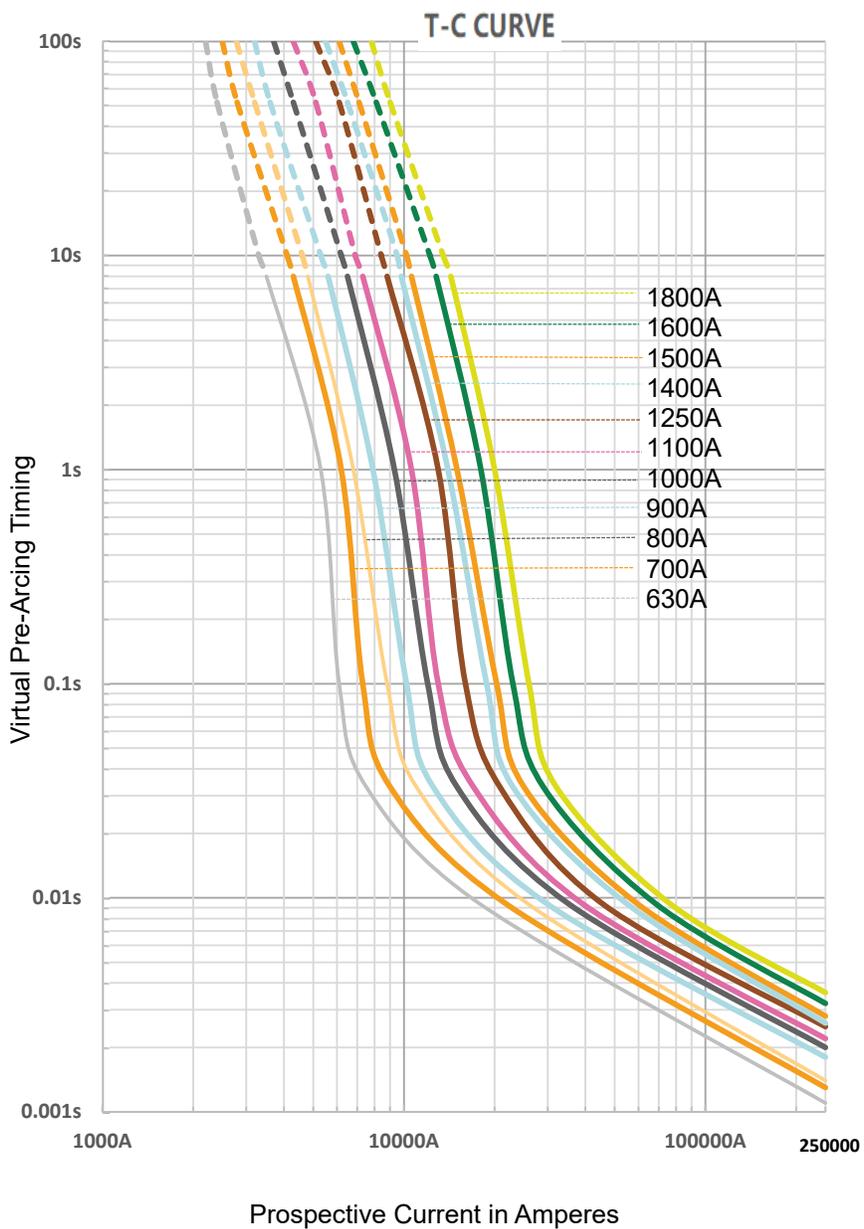
Where the following conditions apply, fuses complying with this standard are deemed capable of operating satisfactorily without further qualification.

- 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  $40^{\circ}\text{C}$ .
- Higher relative humidity is permitted at lower temperatures, e.g., 90% at  $20^{\circ}\text{C}$ .
- 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.

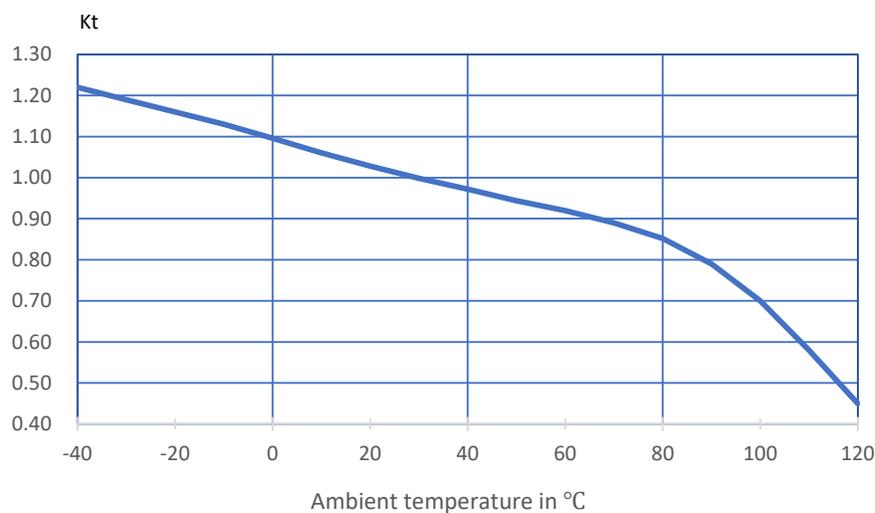






### Temperature Correction Curve

When the fuse is operating below  $-5^{\circ}\text{C}$  or above  $40^{\circ}\text{C}$ , the rated current needs additional modification. The correction factor is  $K_t$ .



### WEB RESOURCES

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## AHE 5# ESS FUSES



### DESCRIPTION

Adler AHE5# ESS series power fuses are specially engineered and tested to provide excellent protection performance in Industrial ESS and Power Distribution Protection. With currents from 1250A to 3000A 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

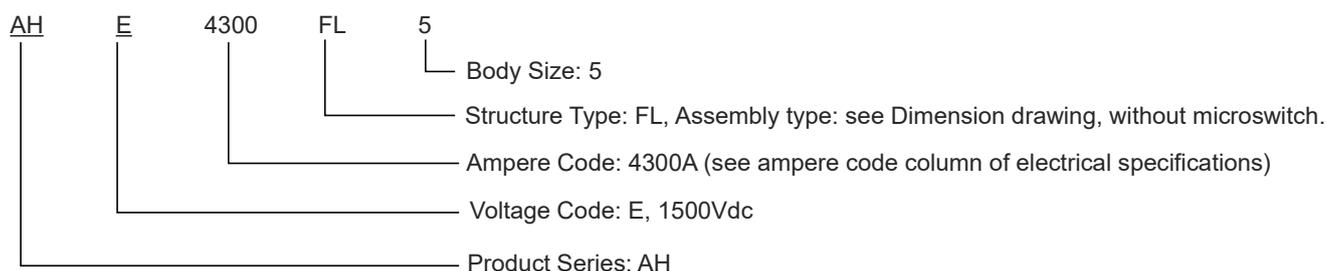
### FEATURES

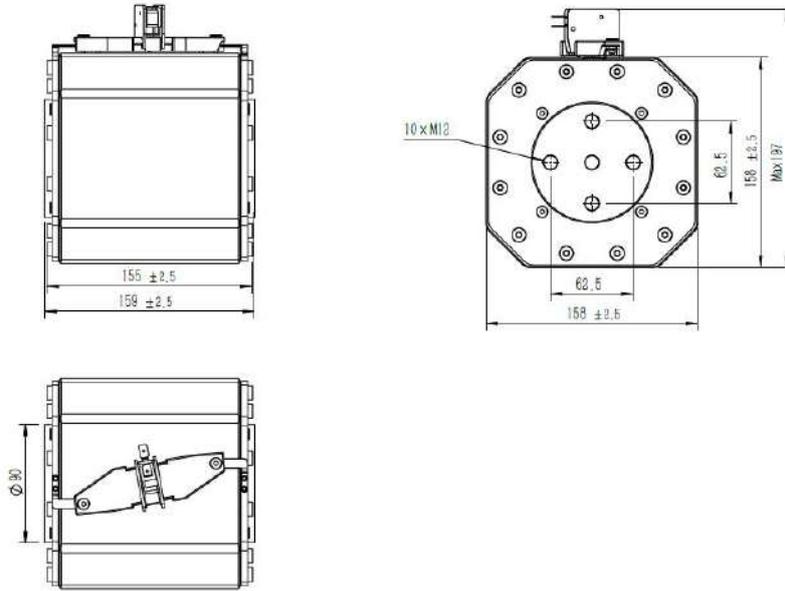
- Rated Voltage: 1500 Vdc
- Amperage Rating: 1250A-3000A
- Breaking Capacity: 250kA
- Time Constant: 10~15ms
- Class Type: aR
- Strong current limiting capacity
- AHE series PN in this datasheet is without microswitch  
Optional microswitch available PN: MS0003

### APPLICATIONS

- Industrial ESS and BESS protection
- Power Distribution Protection

### PART NUMBERING SYSTEM



**DIMENSIONS (mm):**
**AHE4300FL5:**


Box specifications (mm)	Packing quantity / per container	Weight / PCS (g) without microswitch	Recommended Screw	Recommended tightening torque (N·m)
262×262×237	1pc	11334±6%	M12	46±1

**ELECTRICAL SPECIFICATIONS**

Size	Item No.	Flush	Ampere Code	Rated Current / A	Rated Voltage / Vdc	Breaking Capacity	I <sup>2</sup> t (A <sup>2</sup> s)				Power Loss / W 100% Rated
							100kA Pre-Arcing	100kA Total	250kA Pre-Arcing	250kA Total	
ESS 5#	1	AHE4125FL5	4125	1250	1500	250kA	2374000	4287000	723000	2313000	270
	2	AHE4135FL5	4135	1350	1500	250kA	3265000	6823000	988700	3196600	290
	3	AHE4150FL5	4150	1500	1500	250kA	4986000	8912000	1478000	4729000	300
	4	AHE4180FL5	4180	1800	1500	250kA	5897000	11300000	2257000	7222000	360
	5	AHE4200FL5	4200	2000	1500	250kA	7850000	13400000	3070000	10460000	490
	6	AHE4220FL5	4220	2200	1500	250kA	9875000	17300000	4001000	13180000	530
	7	AHE4250FL5	4250	2500	1500	250kA	11540000	22890000	5823000	22370000	620
	8	AHE4280FL5	4280	2800	1500	250kA	15400000	28765000	8227000	30110000	680
	9	AHE4300FL5	4300	3000	1500	250kA	21289000	38970000	10800000	34600000	750

TUV File: 50601552 (IEC60269-4) / 50608048 (IEC60269-7)

UL File: E485737

CCC File: 2023000308000088

**OPERATION CONDITIONS:**

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

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

**STORAGE:**

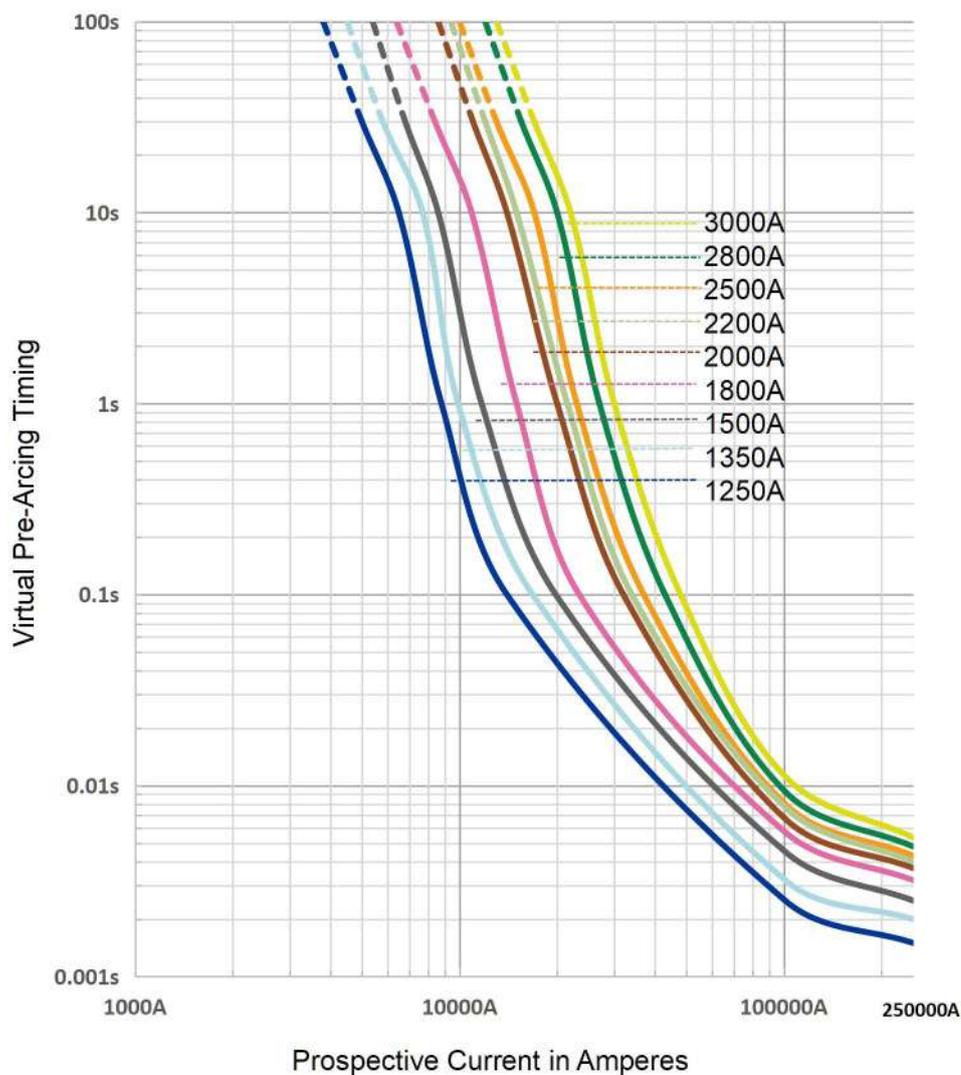
During transportation and storage, avoid water seepage and mechanical damage.





TIME CURRENT CURVE

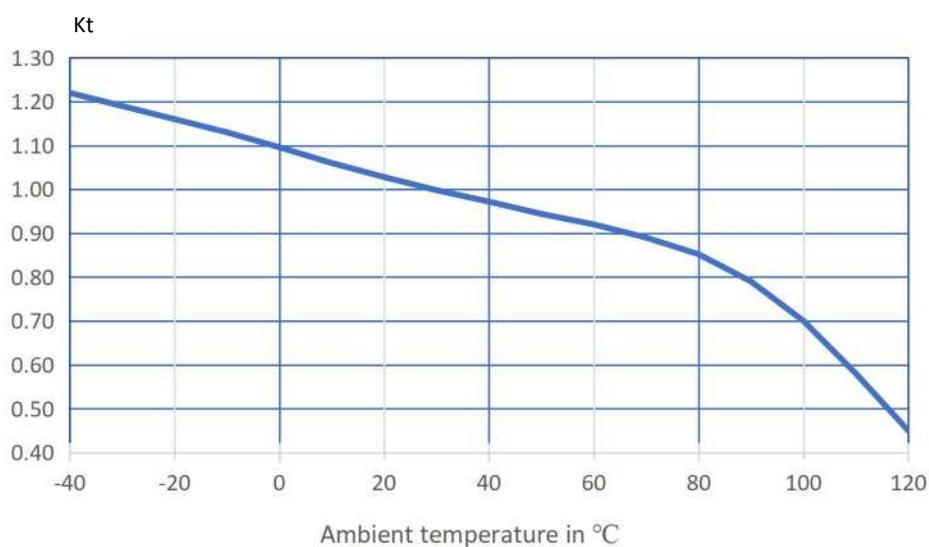
T-C CURVE





### Temperature Correction Curve

When the fuse is operating below  $-5^{\circ}\text{C}$  or above  $40^{\circ}\text{C}$ , the rated current needs additional modification. The correction factor is  $K_t$ .



### WEB RESOURCES

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