

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.

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

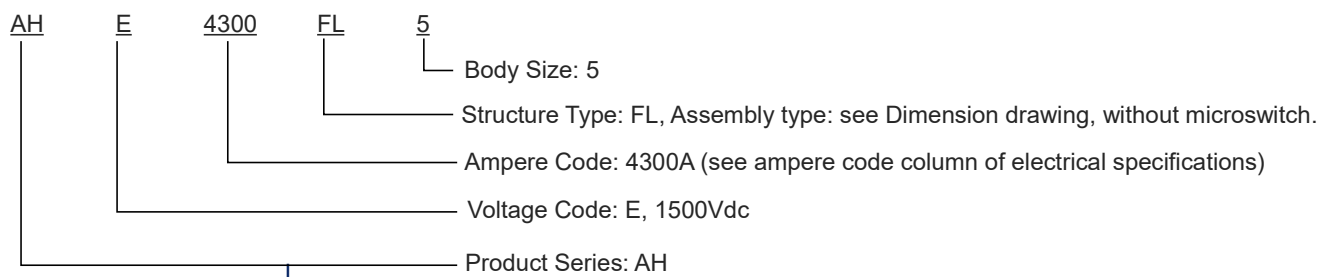
AGENCY INFORMATION

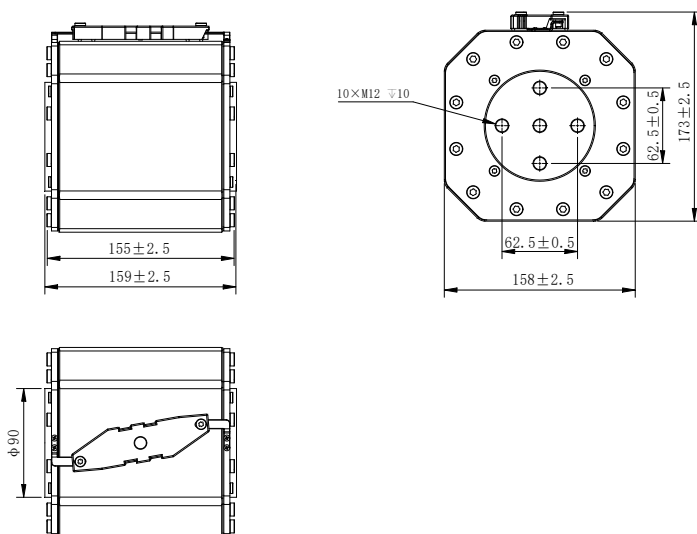
- Comply with IEC 60269-1 / IEC 60269-4 / IEC 60269-7
- Approval: UL & TUV & CCC
- IATF 16949 quality system
- RoHS and REACH Compliant

APPLICATIONS

- Industrial ESS and BESS protection
- Power Distribution Protection

PART NUMBERING SYSTEM



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 ² t (A ² 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.

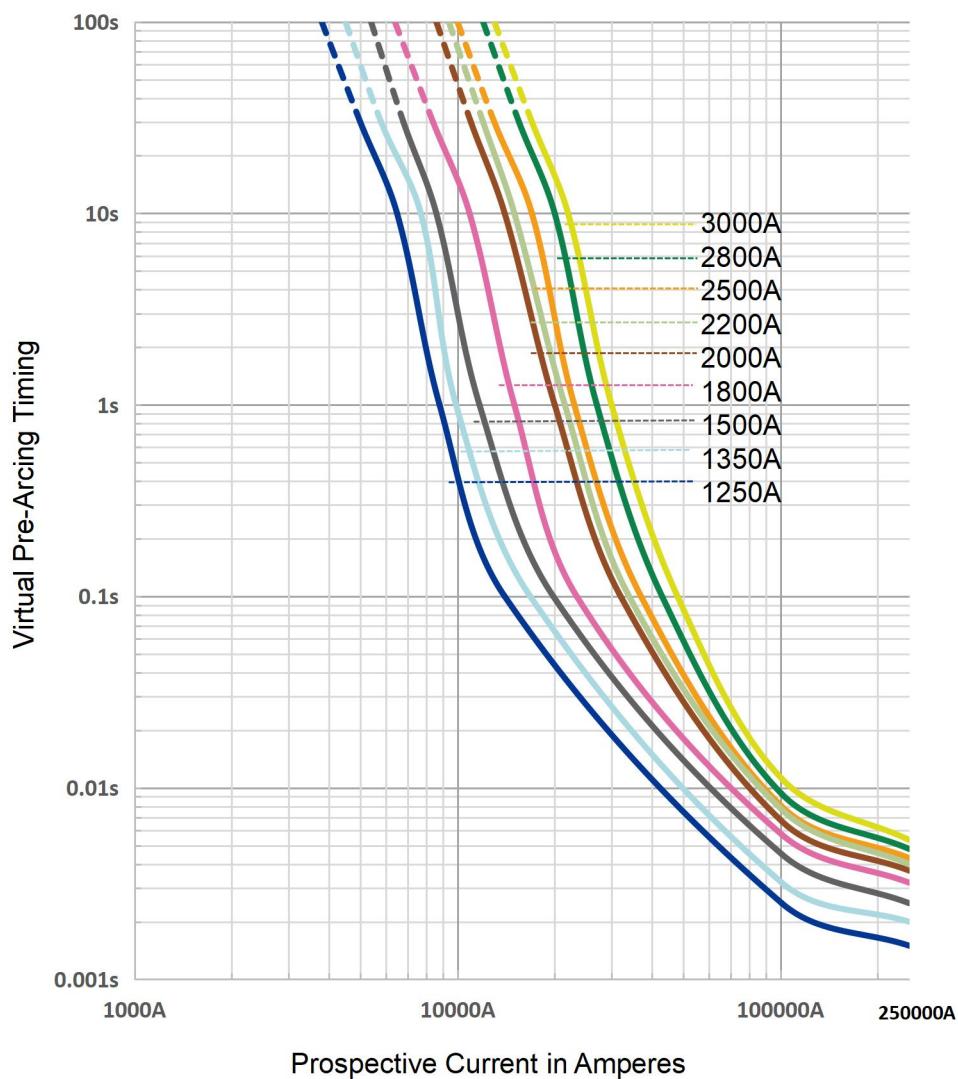
- Normal temperature: -5°C - 40°C , permissible operating temperature: -40°C - 120°C .
- The altitude of the site of installation of the fuses does not exceed 2000m above sea level and permissible altitude site of installation does not exceed 5000m.
- The air should be clean, and its relative humidity does not exceed 50% at the maximum temperature of 40°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 those above, please contact the manufacturer.

STORAGE:

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

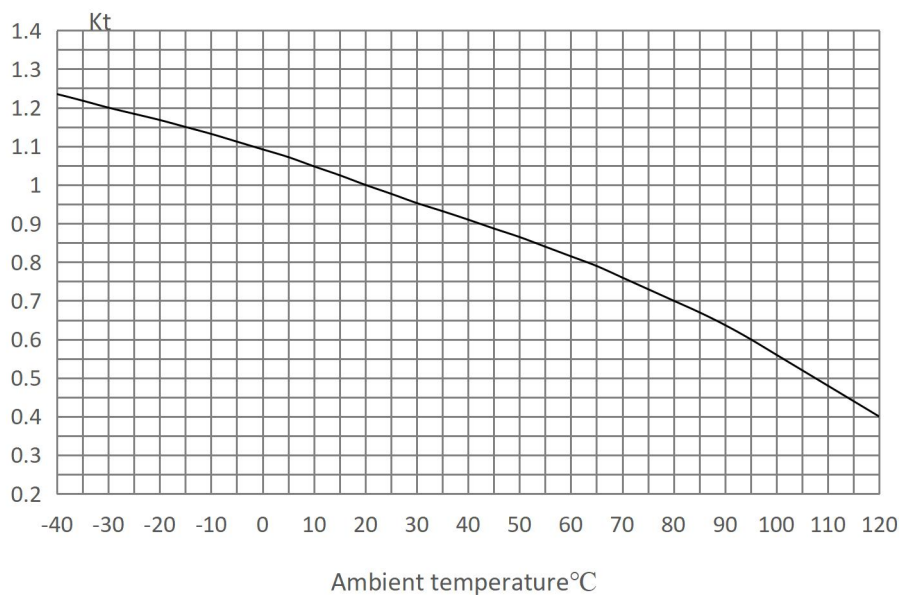
TIME CURRENT CURVE

T-C CURVE



Temperature Correction Curve

When the fuse is operating below -5°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.