

5 Hall sensor

- Measuring
 - AC, DC, pulse and other complex current signals
- Features
 - Small package size
 - Low power consumption
 - Extended measuring range
- Application
 - AC variable speed drives
 - Battery supplied applications
 - Uninterruptible Power Supplies

● Technical data

Technical parameters		Open-loop	
		Real-time values	Hall (true RMS)
Output	Nominal value	Voltage: $\pm 5V/\pm 4V$	Current: 4–20mA
	Zero offset voltage (current)	Voltage: $\pm 20mV$	Current: $\pm 0.05mA$
	Offset voltage (current) drift	Voltage: $\leq \pm 1.0mV/^{\circ}C$	Current: $\pm 0.04mA/^{\circ}C$
	Linearity	$\leq 0.2\%FS$	
Power voltage		DC $\pm 15V$ DC 12V/24V	DC 12V/24V
Bandwidth		0–20kHz	
Response time		$\leq 20\mu s$	$\leq 1ms$
Dielectric strength		Permissible 3500VAC between input/output	
Accuracy class		1.0	
Environment	Temperature	$-40^{\circ}C\sim +85^{\circ}C$	
	Humidity	Up to 95%,no condensing	
	Altitude	$\leq 3500m$	

● Specifications

Appearance	Type	Rated input	Auxiliary Power	Rated Output	Measuring Aperture (mm)	
	AHKC-EKA	$\pm (50\sim 500)A$	$\pm 12V \sim \pm 15V$	$\pm 5V/4V$	$\phi 20$	Split
	AHKC-EKAA	DC 0~(50~500)A	12V, 24V	4~20mA		
	AHKC-EKB	$\pm (200\sim 1000)A$	$\pm 12V \sim \pm 15V$	$\pm 5V/4V$	$\phi 40$	Split
	AHKC-EKBA	DC 0~(200~1000)A	12V, 24V	4~20mA		
	AHKC-EKC	$\pm (500\sim 1500)A$	$\pm 12V \sim \pm 15V$	$\pm 5V/4V$	$\phi 60$	Split
	AHKC-EKCA	DC 0~ (500~1500)A	12V, 24V	4~20mA		
	AHKC-K	$\pm (400\sim 2000)A$	$\pm 12V \sim \pm 15V$	$\pm 5V/4V$	64 × 16	Split
	AHKC-KAA	DC0~(400~2000)A	12V, 24V	4~20mA		
	AHKC-H	$\pm (500\sim 3000)A$	$\pm 12V \sim \pm 15V$	$\pm 5V/4V$	82 × 32	Split
	AHKC-KA	$\pm (500\sim 5000)A$	$\pm 12V \sim \pm 15V$	$\pm 5V/4V$	104 × 36	Split
	AHKC-HB	$\pm (2000\sim 40000)A$	$\pm 12V \sim \pm 15V$	$\pm 5V/4V$	132 × 52	Split
	AHKC-HBAA	DC0~(2000~40000)A	12V, 24V	4~20mA		
	AHKC-E	$\pm (50\sim 500)A$	$\pm 12V \sim \pm 15V$	$\pm 5V/4V$	$\pm 5V/4V$	$\phi 20$
	AHKC-LT	$\pm (100\sim 800)A$	$\pm 12V \sim \pm 15V$	$\pm 5V/4V$	$\pm 5V/4V$	$\phi 32.5$
	AHKC-C	$\pm (100\sim 800)A$	$\pm 12V \sim \pm 15V$	$\pm 5V/4V$	$\pm 5V/4V$	30*10.5
	AHKC-BS	$\pm (50\sim 500)A$	$\pm 12V \sim \pm 15V$	$\pm 5V/4V$	20.5*10.5	closed
	AHKC-BSA	DC0~(50~500)A	12V, 24V	4~20mA		
	AHKC-F	$\pm (200\sim 1000)A$	$\pm 12V \sim \pm 15V$	$\pm 5V/4V$	43*13	closed
	AHKC-FA	$\pm (200\sim 1500)A$	$\pm 12V \sim \pm 15V$	$\pm 5V/4V$	52*15	closed
	AHKC-HAT	$\pm (400\sim 2000)A$	$\pm 12V \sim \pm 15V$	$\pm 5V/4V$	52*32	closed

● Spec. and size (unit: mm)

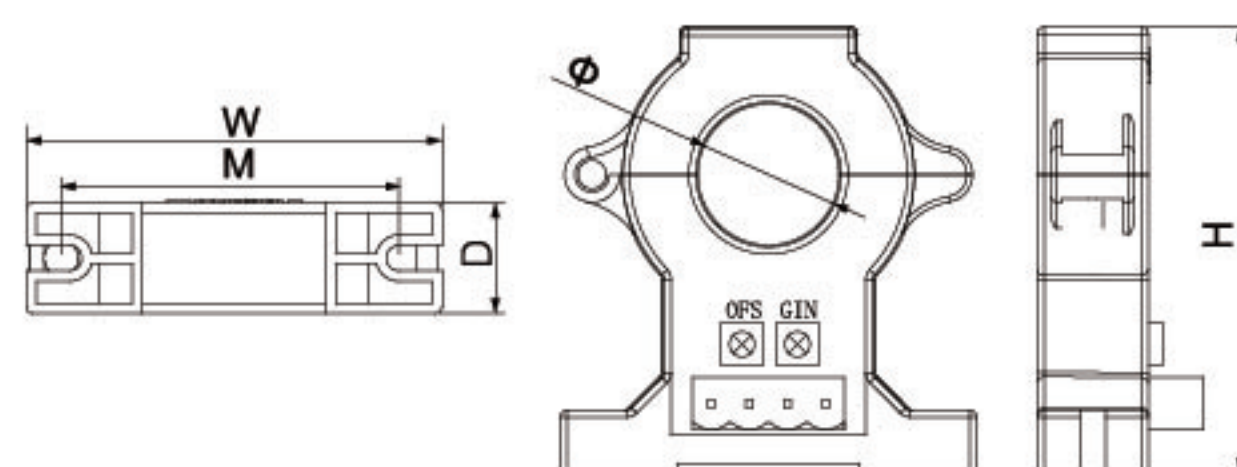


Fig.1

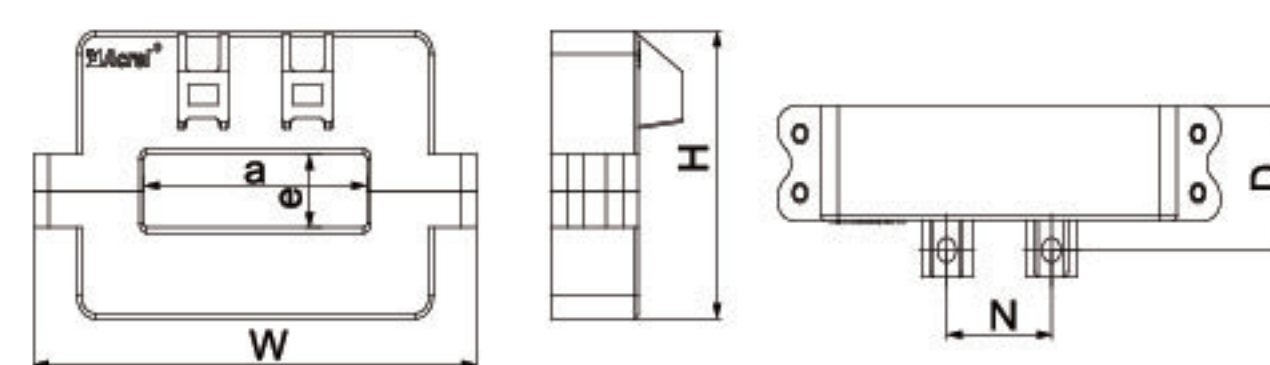


Fig.2

Size	Specification	Outline size			Through size			Mounting size		Figure
		W	H	D	a	e	Φ	M	N	
	AHKC-EKA	60	64	16	/	/	20	47	/	Fig.1
	AHKC-EKAA	60	64	16	/	/	20	47	/	Fig.1
	AHKC-EKB	100	102	24	/	/	40	80	/	Fig.1
	AHKC-EKBA	100	102	24	/	/	40	80	/	Fig.1
	AHKC-K	127	63	25	64	16	/	/	30	Fig.2
	AHKC-KAA	127	63	25	64	16	/	/	30	Fig.2
	AHKC-H	149	79	25	82	32	/	/	46	Fig.2
	AHKC-KA	176	95.5	29	104	36	/	/	60	Fig.2
	AHKC-HB	204	111.5	29	132	52	/	/	48 × 2	Fig.2

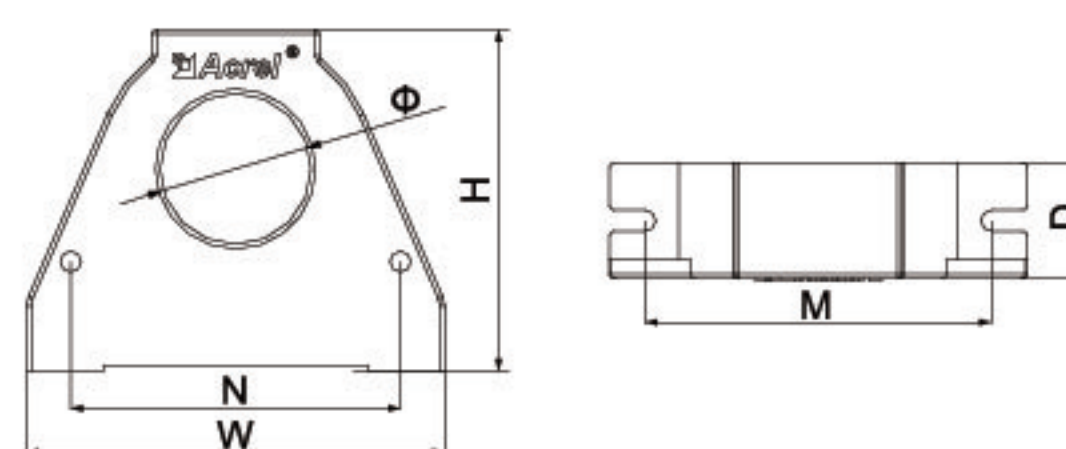


Fig.3

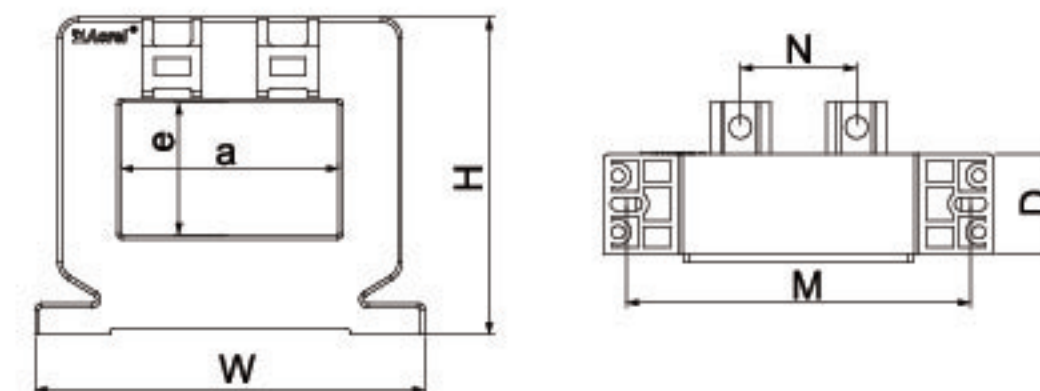


Fig.4

Size	Specification	Outline size			Through size			Mounting size		Figure
		W	H	D	a	e	Φ	M	N	
	AHKC-E	53	72	16	/	/	21	47	/	Fig.3
	AHKC-LT	90	73.5	25	/	/	32.5	74.5	71	Fig.3
	AHKC-BS	43	32.5	19	20.5	10.5	/	/	/	Fig.3
	AHKC-BSA	43	32.5	19	20.5	10.5	/	/	/	Fig.3
	AHKC-F	74	57	22	43	13	/	/	22	Fig.4
	AHKC-FA	94	60.5	26.5	52	15	/	83	28	Fig.4
	AHKC-HAT	94	76.5	24	52.5	32	/	83	28	Fig.4

6 Closed-loop Transducer

● Measuring

–AC, DC, pulse and other complex current signals

● Features

- Excellent accuracy
- Low temperature drift
- Wide frequency bandwidth
- Optimized response time

● Application

- AC variable speed drives
- Battery supplied applications
- Uninterruptible Power Supplies
- Power supplies for welding application

● Technical data

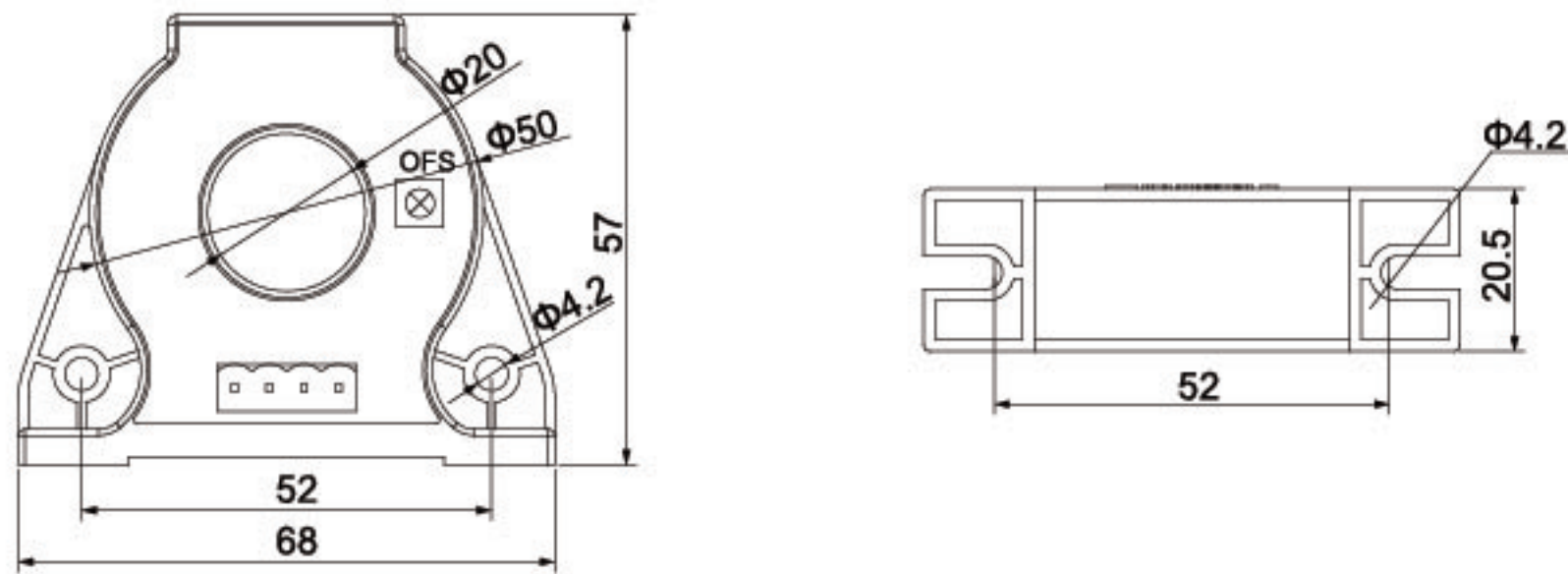
Technical parameters		Data	
		Closed-loop	
		Hall Current	Hall Voltage
Output	Nominal value	Current: 50mA, 100mA, 200mA, 200mA	Current: 50mA
	Zero offset voltage (current)	Voltage: ± 0.2mA	Current: ± 0.1mA
	Linearity	≤0.2%FS	
Power voltage		± 15V ~ ± 24V	
Bandwidth		0~100kHz	
Response time		≤ 1us	≤ 200us
Dielectric strength		3.5kV AC	12kV AC
Accuracy class		0.5	
Environment	Temperature	-40℃ ~ +85℃	
	Humidity	Up to 95%,no condensing	
	Altitude	≤ 3500m	

● Specifications

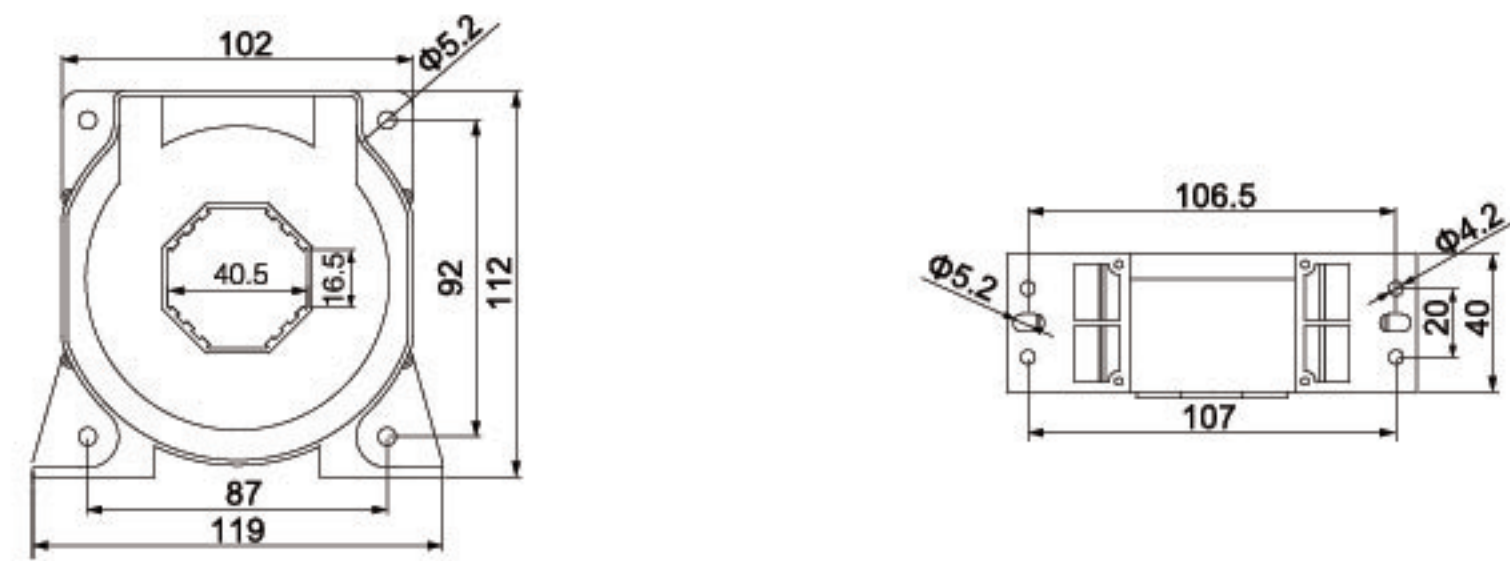
Appearance	Type	Rated Input	Auxiliary Power	Rated Output	Measuring Aperture (mm)
	AHBC-LTA	$\pm (100 \sim 300) \text{ A}$	$\pm 15\text{V} \sim \pm 24\text{V}$	50mA, 100mA	$\phi 20$
	AHBC-LT1005	$\pm 1000\text{A}$	$\pm 15\text{V} \sim \pm 24\text{V}$	200mA	$\phi 40.5$
	AHBC-LF	$\pm 2000\text{A}$	$\pm 15\text{V} \sim \pm 24\text{V}$	400mA	$\phi 60.5$
	AHVS-L100	$\pm 2000\text{V}$	$\pm 15\text{V} \sim \pm 24\text{V}$	50mA	/
	AHVS-LV	$\pm 4000\text{V}$	$\pm 15\text{V} \sim \pm 24\text{V}$	50mA	/

● Spec. and Size (unit: mm)

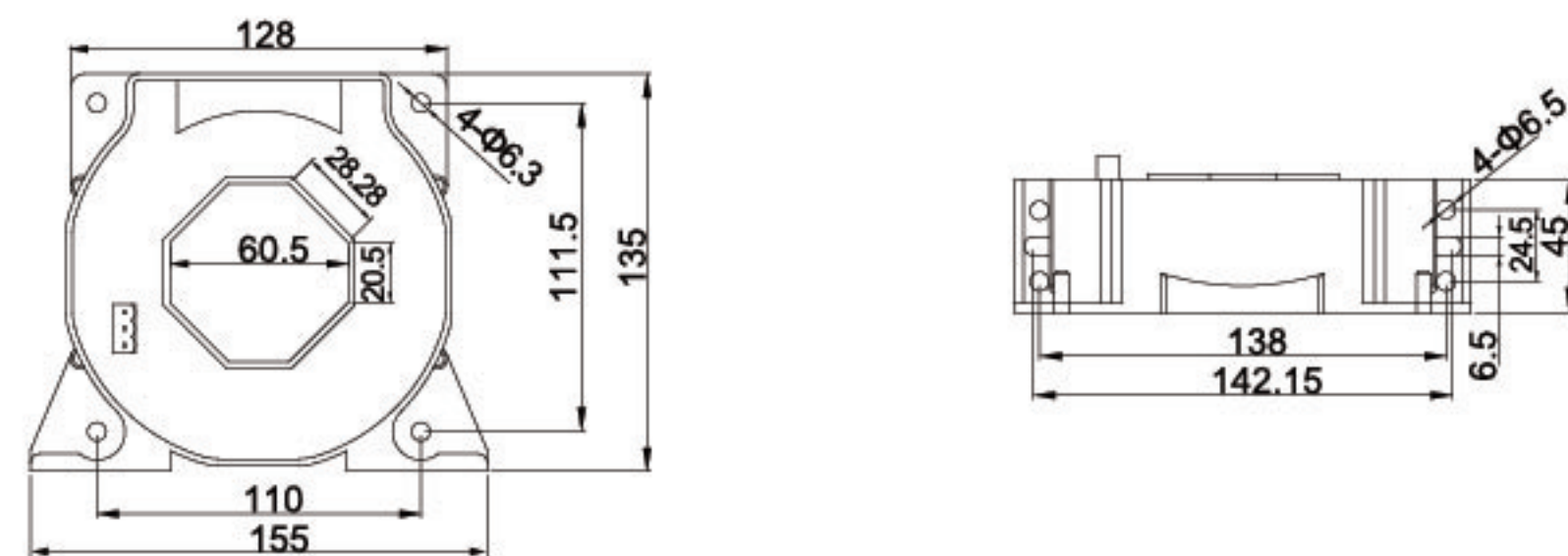
Outline size of AHBC-LTA



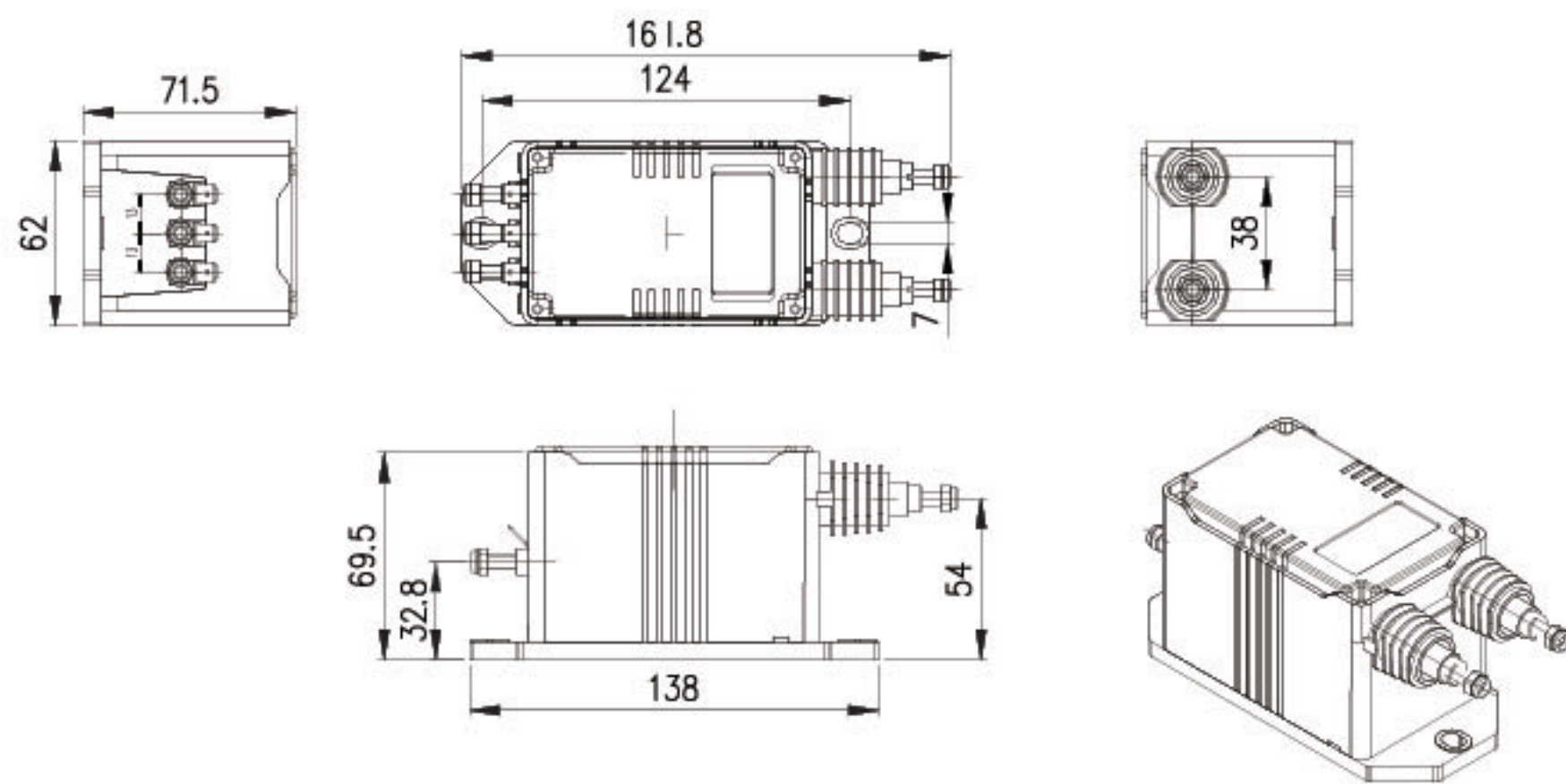
Outline size of AHBC-LT1005



Outline size of AHBC-LF



Outline size of AHVS-L100



Outline size of AHVS-LV

