
AFL-T Series Shunts

Introduction:

The fixed-value shunt is mainly used for the measurement of large current. Its working principle is similar to the small-resistance four-terminal measuring resistor. The method of measuring the voltage drop reflects the magnitude of the measured current. The AFL-T series fixed value shunt is mainly made of manganese copper material and copper terminal welded with silver alloy. The copper terminals on both sides have a set of current measuring end and voltage sampling end. The maximum rated current is 10kA. When the measured current is less than or equal to 50A, it is fixed by plastic base. When it is more than 50A, it is fixed by copper terminal directly. When the shunt is used with the pointer ammeter, since the ammeter is actually a millivoltmeter with a resistance of about several ohms, it must be connected with a pair of fixed-value wires supplied with the ammeter. When the shunt is used with the digital voltmeter, it can be connected by any wire.

Applications:

Telecommunications equipment, electric vehicles, aerospace, charging stations, electroplating power supplies, instrumentation, DC power transmission and other systems.

Standards:

GB/T 7676.1~9-1998 "Direct acting indicating analogue electrical measuring instruments and their accessories"

GB/T5729-94 "Fixed resistors for electronic equipment"

GJB/T360A-96 "Test Methods for Electronic and Electronic Components"

GB2423 "Regulations for Environmental Testing of Electrical and Electronic Products"

IEC 51-9 "Direct acting indicating analogue electrical measuring instruments and their accessories - Part 9: Recommended test methods"

JB/T9288-1999 "External shunt"

IEC610101-2001 "Safety requirements for electrical equipment for measurement, control and laboratory"

SJ/T11363-2006 "Limited Requirements for Hazardous Substances in Electronic Information Products"

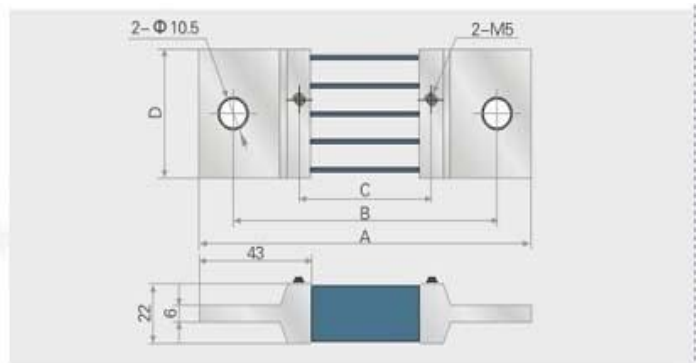
Function:

This fixed-valued shunt is widely used to expand the measuring range of meter's current.

Technical parameters:

- 1) Production range: 1A~50A/ 10mV~800mV; 51A~2500A/ 10mV~300mV; 2501A~12000A /10mV~100mV, conventional 75mV
- 2) Environmental conditions: -25 ~ +40 ° C, relative humidity: ≤ 80%.
- 3) Temperature rise: When the temperature is stable for two hours at rated current, if the rated current of the equipment is below 100A, the temperature rise should not exceed 80K. If the rated current of the equipment is above 100A, the temperature rise should not exceed 120K.
- 4) Overload performance: 120% rated current, 2 hours.
- 5) Thermal potential effect: no more than 50% of the grade index.
- 6) Accuracy : 0.5 class

AFL-T
50A--600A

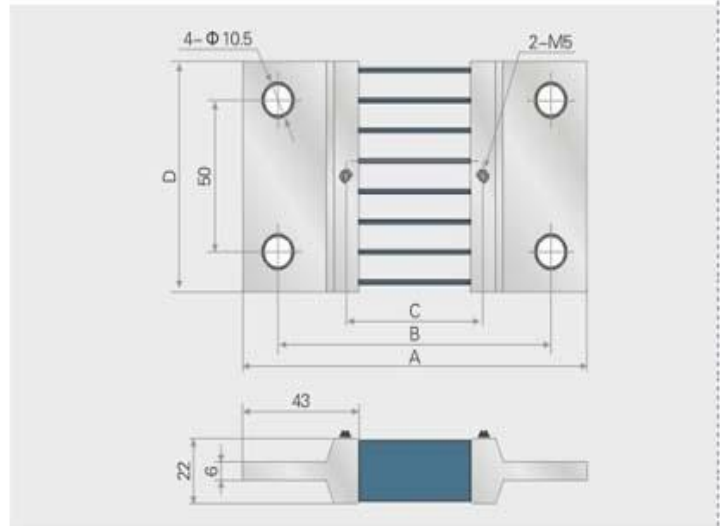


SIZE SPECIFICATION

Unit单位: mm

尺寸规格		25mV				50mV				60mV				75mV				100mV			
Amp. 安培数	Size 尺寸	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D
		50A																			
100A																					
150A					22				22				22	117	85	40	22				22
200A																					
300A		100	75	23	26	112	80	35	26	117	85	40	26				26	146	120	69	26
400A					36				36				36	126	100	49	36				36
500A					46				46				46				46				46
600A					56				56				56				56				56

AFL-T
750A--1200A

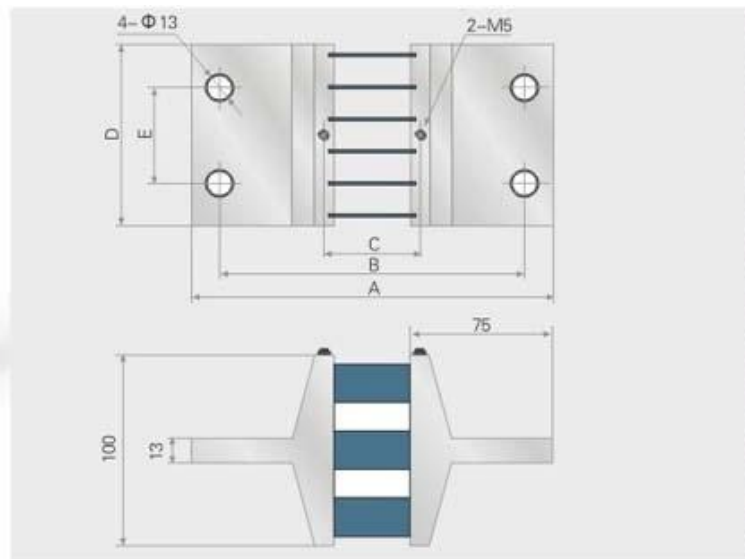


SIZE SPECIFICATION

Unit单位: mm

尺寸规格		25mV				50mV				60mV				75mV				100mV					
Amp. 安培数	Size 尺寸	Volt 电压	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	
			750A						76				76				76				76		
800A			100	75	23		112	80	35		117	85	40		126	100	49		146	120	69		96
1000A						96			96				96				96				96		96
1200A																							

AFL-T
1500A-2500A

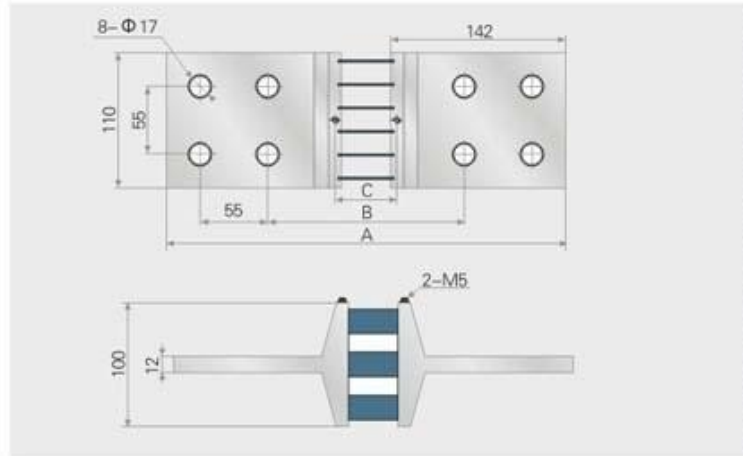


SIZE SPECIFICATION

Unit单位: mm

尺寸规格		25mV					50mV					60mV					75mV					100mV					
Amp. 安培数	Size 尺寸	Volt 电压	A	B	C	D	E	A	B	C	D	E	A	B	C	D	E	A	B	C	D	E	A	B	C	D	E
			1500A						95	50				95	50				95	50				95	50		
2000A			164	134	24		176	146	36		181	150	41		190	160	50		210	180	70				110	55	
2500A						110	55				110	55				110	95				110	55				110	55

AFL-T
2500A



SIZE SPECIFICATION

Unit单位: mm

尺寸规格		25mV			50mV			60mV			75mV			100mV		
Size 尺寸	Volt 电压	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
Amp 安培数																
2500A		298	133	24	311	146	37	317	152	43	325	160	51	338	173	64

Notes:

1) No artificial contact resistance is allowed at the cable or copper bar of the primary circuit of the shunt and the shunt connection. The sampling point of the secondary voltage cannot be sampled from the non-sampling point;

2) The actual current used (long time) is recommended not to exceed 80% of the rated current.

Prices:

No.	Name	Rated Current	Voltage	Warranty	Price
1	Shunt	10-50A	75mV	1 year	
2	Shunt	75A	75mV	1 year	
3	Shunt	100A	75mV	1 year	
4	Shunt	150A	75mV	1 year	
5	Shunt	200A	75mV	1 year	
6	Shunt	250A	75mV	1 year	
7	Shunt	300A	75mV	1 year	
8	Shunt	350A	75mV	1 year	
9	Shunt	400A	75mV	1 year	

10	Shunt	500A	75mV	1 year	
11	Shunt	600A	75mV	1 year	
12	Shunt	750A	75mV	1 year	
13	Shunt	800A	75mV	1 year	
14	Shunt	1000A	75mV	1 year	
15	Shunt	1200A	75mV	1 year	
16	Shunt	1500A	75mV	1 year	
17	Shunt	2000A	75mV	1 year	
18	Shunt	2500A	75mV	1 year	
19	Shunt	3000A	75mV	1 year	

Note: The secondary signal is routinely rated at 75mV, class 0.5. Other signals or accuracy are required to be indicated when placing the order.

ACREL CO., LTD

[Tel:0086-21-59104832](tel:0086-21-59104832)

0086-18702112018

Wechat: 956390230