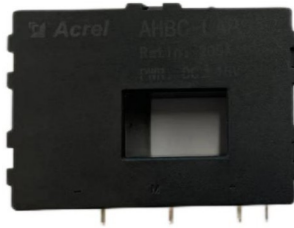


AHBC-LAP $I_p=50A...200A$



Products Features

Excellent accuracy
Very good linearity
Wide frequency bandwidth
No insertion losses
High immunity to external interference

Applications

Static converters for DC motor drives
Battery supplied applications
Uninterruptible Power Supplies (UPS)
SWITCHED Mode Power Supplies (SMPS)
Power supplies for welding applications

Remarks

The false wiring may result in the damage of the sensor.

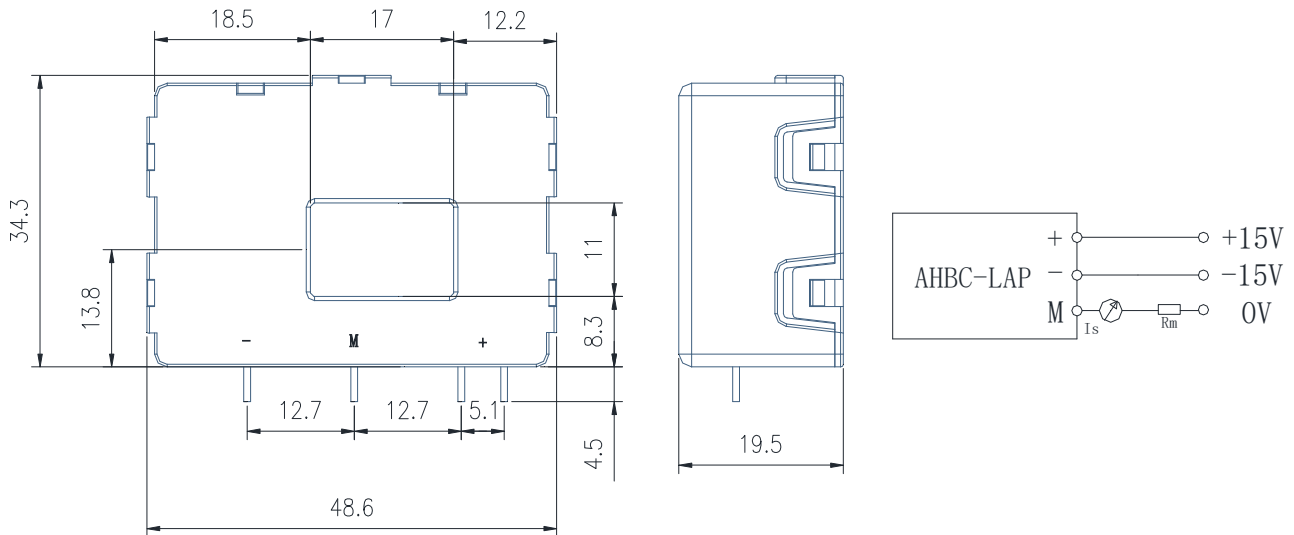
VOUT is positive when IP flows in the direction of the arrow.

Dynamic performances (di/dt and response time) are best with a single bar completely filling the primary hole.

Temperature of the primary conductor should not exceed 100°C.

This is a standard model. For different versions (IP, supply voltages, output voltages, connection of secondary, turns ratios...), please contact us.

Mechanical dimension



Pins

+ : Positive power supply (+15V)

- : Negative power supply (-15V)

M: Output

Mechanical characteristics

General tolerance $\pm 0.5 \text{ mm}$

Other tolerance execution GB/T 1804-2000-M

Recommended PCB hole $\Phi 1.1 \text{ mm}$

Electrical data AHBC-LAP

@ $T_A = 25\text{ }^\circ\text{C}$

Type	AHBC-LAP			
I_P Rated input	$\pm 50\text{A}$	$\pm 100\text{A}$	$\pm 150\text{A}$	$\pm 200\text{A}$
I_{PM} Measure range	$\pm 75\text{A}$	$\pm 150\text{A}$	$\pm 220\text{A}$	$\pm 300\text{A}$
I_S Rated output current	$\pm 50\text{mA}$	$\pm 50\text{mA}$	$\pm 100\text{mA}$	$\pm 100\text{mA}$
K_N Conversion ratio	1:1000	1:2000	1:1500	1:2000
R_i Coil internal resistance	25.6 Ω	41.5 Ω	59 Ω	59 Ω
V_C Supply voltage	$\pm 15\text{VDC} (\pm 5\%)$			
I_C Current consumption	$(I_S + 15)\text{ mA}$			
X Overall accuracy	$\pm 0.5\%FS$			
ϵ_L Linearity	$\leq 0.1\%FS$			
I_O Offset current	$\pm 0.1\text{mA}$			
I_{OT} Offset current drift	$\leq 0.5\text{mA}/^\circ\text{C}$			
V_D Galvanic isolation	50Hz, 1min, 3.5KV			
T_R Response time	$< 1\mu\text{s}$			
BW Frequency bandwidth-3db	DC~100KHz			
T_A Ambient operating temperature	$-40\sim +85^\circ\text{C}$			
T_S Ambient storage temperature	$-40\sim +125^\circ\text{C}$			
m Mass	$\approx 44.5\text{g}$			
Standards	JB/T 7490-2007			