


I_{pn} =50A…100A
Introduction

WCB47A series Hall current sensor can measure DC, AC, pulse and various irregular waveform currents under the condition of complete isolation between the primary and secondary sides.

Performance Parameters

Electrical parameters	WCB47A	
Electrical parameters	50A	100A
Rated current RMS	150A	300A
Measurement range	1:1000	1:2000
Turns ratio	50mA	50mA
Load Resistance	≤30 Ω	≤45 Ω
Voltage	±9~±15V DC	
Current consumption	12+I _s mA	
Insulation withstand voltage	3kV _{rms} /50Hz/1min	
Dynamic parameters		
Total accuracy (T _a =25 °C)	±0.5% FS	
Linearity (T _a =25 °C)	±0.1% FS	
Zero offset voltage (T _a =25 °C)	±0.2mA	
Temperature drift	≤±0.01mA/°C	
Response time	<1us	
Bandwidth (-0.5dB)	DC~100kHz	
di/dt tracking accuracy	>50A/us	
General Parameters		
Working temperature	-40~+85°C	
Storage temperature	-55~+125°C	
Weight	19g	
Implementation Standards	EN50178:1998	

Features

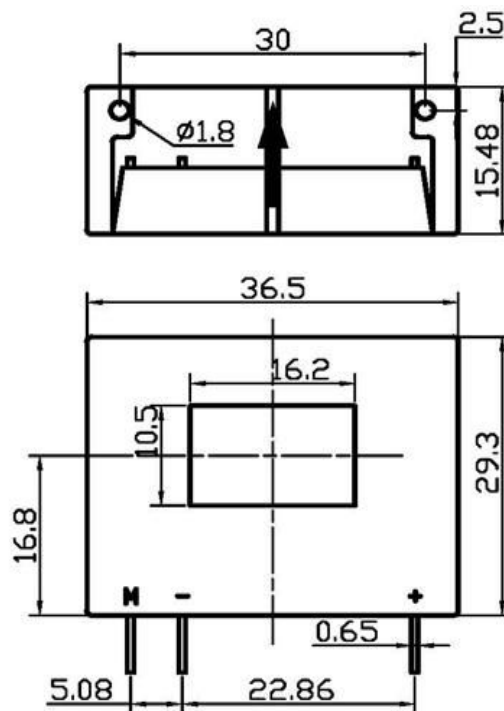
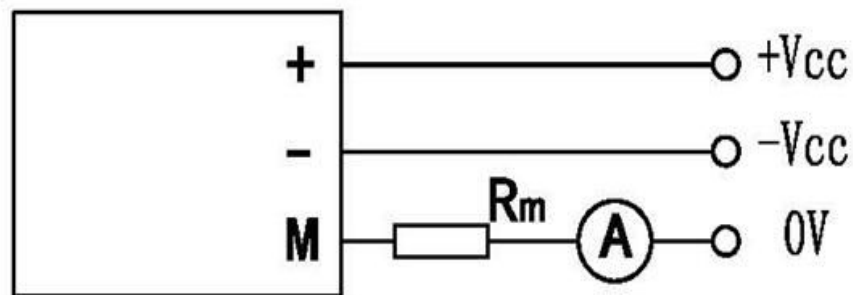
- ◆Magnetic balance type (closed loop)
- ◆Comply with UL94-V0 standard
- ◆PCB board installation
- ◆Comply with RoHS directive requirements
- ◆Comply with CE directive requirements

Advantage

- ◆High precision and good linearity
- ◆Fast response time
- ◆Strong anti-interference ability
- ◆Strong overload capacity

Application area

- ◆Drive control of variable frequency household appliances
- ◆AC variable speed drive
- ◆UPS uninterruptible power supply ◆ Application of inverter power supply ◆ Electrical application
- ◆Industrial grade

WCB47A
Dimensions

Connection

Instructions for use

1. Connect the current according to the direction marked in the circuit diagram, and pay attention to the positive and negative directions of the current
2. Connect the wires according to the definition of the functional pins marked in the structure diagram
3. The above parameters are standard specifications, and our company can customize products according to customer requirements