

$I_{pn} = 5A \dots 50A$

Introduction

WCB41A 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	WCB41A							
Rated current RMS	5A	10A	15A	20A	25A	30A	50A	
Measurement range	15A	30A	45A	60A	75A	90A	120A	
Turns ratio	4:2000	3:3000	2:3000	1:2000	1:2500	1:3000	1:3125	
Output measurement voltage	4V							
Primary pin d(mm)	φ0.8	φ0.8	φ1.0	φ1.4	φ1.4	φ1.6	□1.6*1.5	
Measurement resistance	≥10K Ω							
Power supply voltage	±12~±15V DC							
Current consumption	12+1S mA							
Insulation withstand voltage	3kVrms/50Hz/1min							
Dynamic parameters								
Total accuracy (Ta=25°C)	±0.7% FS							
Linearity (Ta=25°C)	±0.2% FS							
Zero offset voltage (Ta=25°C)	±20mV							
Temperature drift	≤±0.5mV/°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	12g							
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

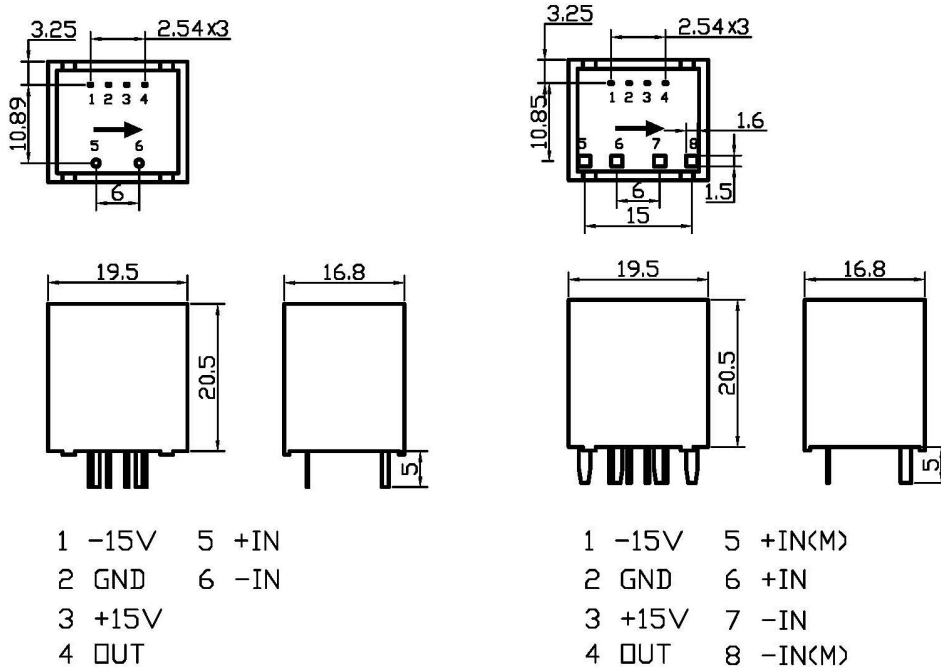
- ◆High precision and good linearity
- ◆Fast response time
- ◆Strong anti-interference ability
- ◆Strong overload capacity

Application area

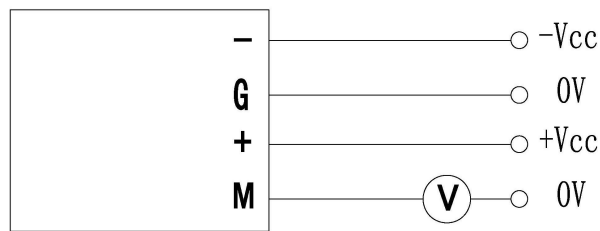
- ◆Drive control of variable frequency household appliances
- ◆AC variable speed drive
- ◆UPS uninterruptible power supply
- ◆Application of inverter power supply
- ◆Electrical application
- ◆Industrial grade

WCB41A

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