

ZMKD21-61SCM Series Hall Current Sensor

Performance parameter

Hall current sensor uses Hall effect principle to measure DC, AC, pulse and various irregular waveform currents under the condition that the original and secondary sides are completely isolated.

ISO Sobjective Sobjec



Feature

- Hall effect measurement principle
- Meet UL94-V0 standard

Advantage

- Easy to install
- Low power consumption
- Wide measuring range
- High precision and good linearity
- ●Low temperature drift
- Strong anti-interference ability
- Strong overload capability

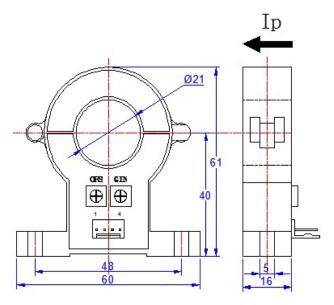
Application

- AC frequency conversion speed control device
- DC motor driven static converter
- UPS uninterruptible power supply
- ●SMPS Switched Mode Power Supplies
- Electric welder machine
- Grid monitoring
- Industrial grade

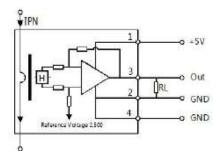
Electrical parameters		
Rated current rms	Ipn	50A 100A 200A 300A 400A 600A
Measuring range	l pm	50A 100A 200A 300A 400A 600A
Rated output @Ip	Vo	2.5± (2*lp/lpn)V
@Ip=0	į	2. 5V
Load Resistance	RL	>2KΩ
Supply Voltage	Uc	+5V
Current consumption	lc	≤15mA
Insulation voltage	Vd	2.5kVAC/50Hz/1min
Dynamic parameter		
Precision (@Ipn,Ta=25°C)	XG	<±1.0%
Linearity (@Ta=25°C)	Er	<±1.0%FS
Zero offset voltage (@Ta=25°C,lp=0)	Voe	<±25mV
Magnetic offset voltage(Ipn->0)	Vон	<±20mV
Zero temperature drift	TCVoe	<±1.0mV/°C
Response time	Tr	<3us
Accurately followed	di/dt	>100A/us
Frequency bandwidth (@-3dB)	BW	DC∼20kHz
General parameters		
Ambient operating temperature	Та	−40~+85°C
Ambient storage temperature	Ts	−55∼+125°C
Weight	m	70g
Case material		PBT G30/G15 UL94-V0
		EN50178:1998
Executive standard		IEC60950-1:2001
		SJ20790-2000

structure

Unit: mm



Instructions



- 1. The direction of the current should be the same as the direction of the arrow of the casing;
- 2_{ν} Please refer to the wiring definition on the physical shell, the wrong wiring willDamaged module;
- $3\sqrt{10}$ In order to obtain better dynamic characteristics and sensitivity, it is recommended to use a single turn wire and the wire fills the module through the wire hole best;
- 4. The primary side wire temperature should not exceed 100 °C;
- 5. The above parameters are standard specifications, and the products can be customized according to customer needs.