

ZMKD16SCP 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.

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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

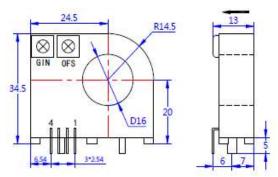
Application

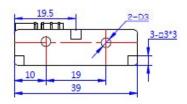
- AC frequency conversion speed control device
- DC motor driven static converter
- UPS uninterruptible power supply
- ●SMPS Switched Mode Power Supplies
- Grid monitoring
- Industrial grade

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Electrical parameters						
Rated current rms	lpn	50A	100A	200A	300A	
Measuring range	l pm	50A	100A	200A	300A	
Rated output @Ip	Vo	2.5± (2*lp/lpn)V				
@lp=0		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 current (@Ta=25°C,Ip=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	25g				
Case material		PBT G30/G15 UL94-V0				
Executive standard		EN50178:1998				
		IEC60950-1:2001				
			SJ20790-2000			

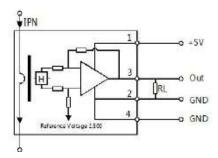
structure

Unit: mm





Instructions



- 1. The direction of the current should be the same as the direction of the arrow of the casing;
- $2\sqrt{\rm Please}$ refer to the wiring definition on the physical shell, the wrong wiring willDamaged module;
- $3\sqrt{1}$ 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_{ν} The above parameters are standard specifications, and the products can be customized according to customer needs.