

ZMK20R10SCM Series Hall Current Sensor



RoHS

CE

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.

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

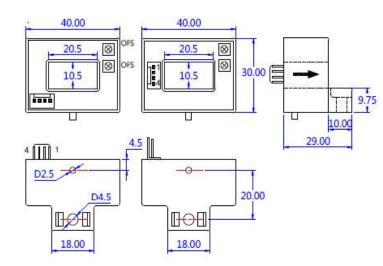
Application

- •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

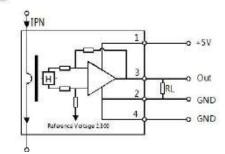
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Electrical parameters								
Rated current rms	Ipn	50A	100A	200A	300A	400A	600A	
Measuring range	lpm	50A	100A	200A	300A	400A	600A	
Rated output @Ip	Vo	2.5± (2*Ip/Ipn)V						
@lp=0		2.5V						
Load Resistance	RL	>2KΩ						
Supply Voltage	Uc	+5V						
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 voltage(@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	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、 Please refer to the wiring definition on the physical shell, the wrong wiring willDamaged module;

3. 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.