

ZMK64R21DAM Series Hall Current Sensor

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

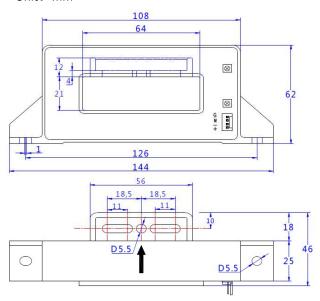
Application

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

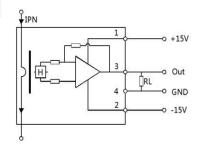
Performance parameter								
Electrical parameters	<i>-</i>							
Rated current rms	lpn	500A	800A	1000A	1500A	2000A	2500A	
Measuring range	lpm	1500A	2400A	3000A	4500A	5500A	5500A	
Rated output @Ip	Vo	4V						
Load Resistance	RL	>10ΚΩ						
Supply Voltage	Uc	±12V~±15V						
Current consumption	Ic	≤15mA						
Insulation voltage	Vd	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	<±20mV						
Magnetic offset voltage(Ipn->0)	Voн	<±20mV						
Zero temperature drift	TCVOE	<±1.0mV/°C						
Response time	Tr	<5us						
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	450g						
Case material		PBT G30/G15 UL94-V0						
Executive standard		EN50178:1998						
			IEC60950-1:2001					
		SJ20790-2000						

structure

Unit: mm



Instruction



- 1. The direction of the current should be the same as the direction of the arrow of the casing;
- $2\sqrt{100}$ 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.