

# **ZMK40R12SCM** 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.

# RoHS



## 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

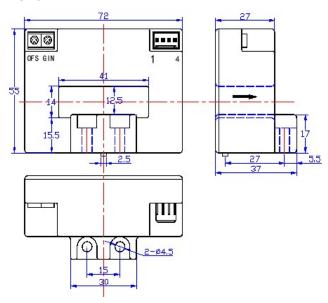
# Application

- 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

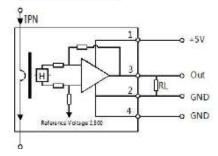
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Electrical parameters		
Rated current rms	Ipn	200A 400A 800A 1000A 1200A 1500A
Measuring range	Ipm	200A 400A 800A 1000A 1200A 1500A
Rated output @lp	Vo	2.5±(2*Ip/Ipn)V
@Ip=0		2.5V
Load Resistance	RL	>2ΚΩ
Supply Voltage	Uc	+5V
Current consumption	Ic	≤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,lp=0)	Voe	<±25mV
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	90g
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. 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.