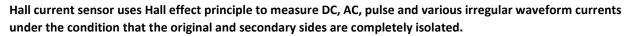


ZMB16R10DIP Series Hall Current Sensor





Performance parameter

Feature

Hall effect measurement principleMeet 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

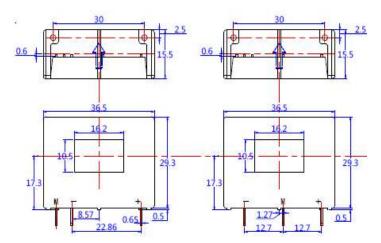
Application

- AC frequency conversion speed control device
- Power filter
- •UPS uninterruptible power supply
- •SMPS Switched Mode Power Supplies
- Electromagnetic heating
- Power DC screen
- Industrial grade

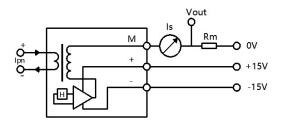
Electrical parameters	i .	i		4054	2004	
Rated current rms	Ipn	50A	100A	125A	200A	
Measuring range	Ipm	150A	300A	375A	600A	
Turn ratio	Np/Ns	1:1000	1:2000	1:1000	1:2000	
Rated output	lsn	50mA	50mA	125mA	100mA	
Coil internal resistance	Rs	30Ω	50Ω	30Ω	50Ω	
Max measuring resistance	Rm	(Uc-0.6V)*1000/Is-Rs				
Supply voltage	Uc	±12V~±15V				
Current consumption	lc	15mA+Is				
Insulation voltage	Vd	3kVAC/50Hz/1min				
Dynamic parameter						
Precision (@lpn,Ta=25°C)	XG	<±0.5%				
Linearity(@Ta=25°C)	Er	<±0.1%FS				
Zero offset current(@Ta=25°C,Ip=0)	lo	<±0.2mA				
Magnetic offset current (Ipn->0)	Іон	<±0.1mA				
Zero temperature drift	TCVOE	<±0.005mA/°C				
Response time	Tr	<1us				
Accurately followed	di/dt	>100A/us				
Frequency bandwidth(@-3dB)	BW	DC~200kHz				
General parameters						
Ambient operating temperature	Та	-40∼+85°C				
Ambient storage temperature	Ts	-55∼+125°C				
Weight	m	21g				
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;

 $2\,{}_{\rm \star}\,$ 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.