HNC-100LA Series Hall Current Sensor

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45+05

Introduction

HNC-100LA Series Hall current transducer is the new generation product based on Hall effect. It is able to measure DC, AC, pulse and other currents with irregular waves under the condition of electrical isolation.

\triangle Electrical Parameters	(Ta=25℃)
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Туре			HNC-50LA	HNC-75LA	HNC-100LA	
Parameters	Symbols	HNC-25LA				
Nominal measuring current	I _{PN}	25A	50A	75A	100A	
Linear range	Ip	0~±38A	0~±75A	0~±105A	0~±150A	
Turns ratio	K _N	1:1000	1:1000	1:1500	1:2000	
Coil resistance	Ri	45Ω	45Ω	72Ω	105Ω	
Nominal output current	I _{SN}	25 mA±0.9% 50 mA±0.9% 50mA±0.7%		±0.7%		
Zero offset current	Io	$\leq \pm 0.2 \text{ mA}$ $\leq \pm 0.15 \text{mA}$.15mA	
Linear error	ξL	±0.15%				
Supply voltage	Vc	±15V ±5%				
Response time	Tr	≤1 µ S				
Temperature drift of bridge offset	Іот	Within ±0.1mA Type ±0.5mA Max		Within ±0.1mA Type ±0.25mA Max		
Recommended load resistance	Rм	75~420Ω	30~180Ω	25~150Ω	10~120Ω	
Power dissipation current	Ic	(15+ I _s) mA				
Isolation voltage	V_{d}	2.5KV/50 or 60Hz/1min				
Frequency bandwidth	f	DC~ 100KHz (-3dB)				
Operating temperature	Та	-25°C~+85°C				
Storage temperature	Ts	-40℃~+90℃				

\triangle Dimension: (mm)

General tolerance: $\pm\,0.\,5\text{mm}$



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Features:

• Use close-loop current transducer based on Hall effect

- Adopt UL94V-0-recognized insulated casing
- ♦High precision
- ◆Excellent linearity
- ◆Low temperature drift
- ◆Wide frequency bandwidth
- High immunity against external disturbance

Applications:

•AC variable-frequency speed control system and servo motor

- •Uninterruptible power supply (UPS)
- ◆Battery supply

• Power supply for electric welding machine

Switched-mode power supply

Instructions for Use:

•Connect the wire of transducer in correct way as required.

 Inputting measured current from input end of transducer, the in-phase current signal can be obtained from output end by sampling.

•The arrow indicates positive current direction.

Connection and adjustment:

- ◆+: +Vc (+15V)
- ◆-: -Vc (-15V)

◆M: Output

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