

HNC-60AY Series Hall Current Sensor

Introduction

HNC-60AY 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.

△Electrical Parameters (Ta=25℃)

Type		HNC-25AY	HNC-40AY	HNC-50AY	HNC-60AY
Parameters	Symbols				
Nominal measuring current	I_{PN}	±25A	±40A	±50A	±60A
Linear range	I_P	0~±50A	0~±60A	0~±75A	0~±100A
Nominal output voltage	V_{SN}	±4V±0.04V($R_L=10K\Omega$)			
Zero offset voltage	V_O	≤±40 mV			
Temperature drift of bridge offset	V_{OT}	≤±1 mV/℃			
Linear error	ξ_L	±0.5%			
Response time	T_r	≤3 μS			
Supply voltage	V_C	±15V±5%			
Isolation voltage	V_d	2.0KV/50 or 60Hz/1min			
Power dissipation current	I_C	(15+ I_P /1200) mA			
Frequency bandwidth	f	DC~100KHz(-3dB)			
Operating temperature	T_a	-25℃~+85℃			
Storage temperature	T_s	-40℃~+90℃			



Features:

- ◆ Use close-loop current transducer based on Hall effect
- ◆ Adopt UL94V-0-recognized insulated casing
- ◆ Output voltage signal
- ◆ Low temperature drift
- ◆ Wide frequency bandwidth
- ◆ High immunity against external disturbance

Applications:

- ◆ AC variable-frequency speed control system and servo motor
- ◆ Uninterruptible power supplies (UPS)
- ◆ Switched-mode power supply
- ◆ Power supply for electric welding machine
- ◆ Battery 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 voltage signal can be obtained from output end by sampling.

Pin arrangement:

- ◆ 1: -Vc (-15V)
- ◆ 2: 0V
- ◆ 3: +Vc (+15V)
- ◆ 4: Output
- ◆ 5: primary In
- ◆ 6: primary Out

△Dimension: (mm)

