HNC-1000LTD Series Hall Current Sensor

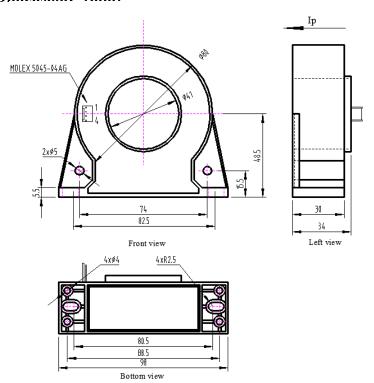
Introduction

HNC-1000LTD 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°C)

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Parameters	Symbols	HNC-300L1D	HNC-400L1D	HNC-500L1D	HNC-800L1D	HNC-1000L1D
Nominal measuring current	I_{PN}	300A	400A	500A	800A	1000A
Linear range	I_P	0~±600A	0~±600A	0~±750A	0~±1200A	0~±1200A
Turns ratio	K_N	1:2000	1:3000	1:4000	1:4000	1:4000
Coil resistance	R_{i}	25Ω	33Ω	45Ω	45Ω	45Ω
Nominal output current	I_{SN}	150mA±0.5%	133mA±0.5%	125mA±0.5%	200mA±0.5%	250mA±0.5%
Zero offset current	Io	≤±0.4mA				
Linear error	$\xi_{ m L}$	±0.1%				
Supply voltage	Vc	±15V ±5%				
Response time	Tr	≤1 µ S				
Temperature drift of bridge offset	I _{OT}	±0.2mA Type ±0.6mA Max				
Power dissipation current	I_{C}	(30+Is) mA				
Recommended load resistance	RM	10~55 Ω	10~65 Ω	5~60 Ω	0~20 Ω	0~12 Ω
Isolation voltage	V_d	6.0KV/50 or 60H _Z /1min				
Frequency bandwidth	f	DC~ 100KH _Z (-3dB)				
Operating temperature	Та	-25℃~+85℃				
Storage temperature	Ts	-40℃~+90℃				

\triangle Dimension: (mm)





Features:

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

Applications:

- ◆ AC variable-frequency speed control system and servo motor
- ◆Uninterruptible power suppers (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 current signal can be obtained from output end by sampling.

Connection and adjustment:

- **♦**1: +Vc (+15V)
- **♦**2: -Vc (-15V)
- ◆3: Output
- **♦**4: NC