HNC151-204 Series Hall Current Sensor

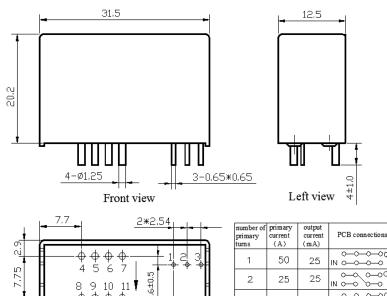
Introduction

HNC151-204 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)

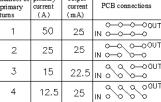
Туре		
Parameters	Symbols	HNC151-204
Nominal measuring current	I _{PN}	50A
Linear range	I_P	0~±90A
Turns ratio	K_N	1-2-3-4:2000
Coil resistance	Ri	140Ω
Nominal output current	I _{SN}	25 mA±0.8%
Zero offset current	Io	$\leq \pm 0.2$ mA(I _{PN} =0)
Linear error	$\xi_{\rm L}$	±0.3%
Supply voltage	Vc	±15V ±5%
Response time	Tr	≤1 µ S
Temperature drift of bridge offset	I _{OT}	≤±0.6mA
Power dissipation current	I _C	$(15+ K*I_P/2000) mA$
Recommended load resistance	Rм	50~400 Ω
Isolation voltage	V _d	3.0KV/50 or 60Hz/1min
Frequency bandwidth	f	DC~ 100KHZ (-3dB)
Operating temperature	Та	-25°C~+85°C
Storage temperature	Ts	-40°C~+90°C

\triangle Dimension: (mm)



Bottom view

9.5±0.5





Features:

٠ Use close-loop current transducer based on Hall effect

◆ Adopt UL94V-0-recognized insulated casing

- High precision
- ◆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

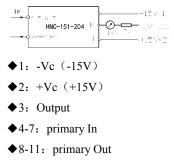
♦ Battery supply

Instructions for Use:

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

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

Pin arrangement:



NANJING ZHONGXU

3*2,54

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