HDC-5000KA Series Hall Current Sensor

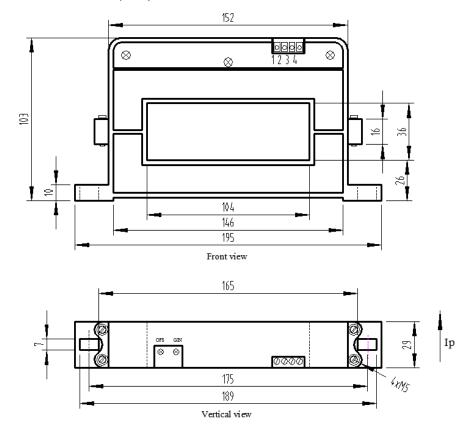
Introduction

HDC-5000KA 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°C)

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Туре		HDC 000K A	LIDG 1000KA	LIDG 2000K	LIDG 5000KA
Parameters	Symbols	HDC-800KA	HDC-1000KA	HDC-2000KA	HDC-5000KA
Nominal measuring current	I_{PN}	800A	1000A	2000A	5000A
Linear range	I_P	0~±1600A	0~±2000A	0~±3000A	$0 \sim \pm 7500 A$
Nominal output voltage	V_{SN}	±4V±0.04V			
Zero offset voltage	Vo	$\leq \pm 0.04 V(I_{PN}=0)$			
Temperature drift of bridge offset	V_{OT}	≤±1mV/°C			
Linear error	ξL	±1%			
Response time	Tr	≤7 µ S			
Supply voltage	Vc	±15V±5%			
Isolation voltage	V_d	6.0KV/50 or 60Hz/1min			
Power dissipation current	I_{C}	±30mA			
Frequency bandwidth	f	DC~20KH _Z (-3dB)			
Operating temperature	Та	-25℃~+85℃			
Storage temperature	Ts	-40°C∼+90°C			

\triangle Dimensions: (mm)





Features:

- ◆ Use open-loop current transducer based on Hall effect
- ◆ Adopt UL94V-0-recognized insulated casing
- ◆Busbar-mounted and panel-mounted
- ◆ High insulation between primary side and secondary side
- ◆Punching way has no insertion loss
- ◆ Dimidiate structure, easy for mounting

Applications:

- ◆Communication power supply
- ◆Uninterruptible power supply (UPS)
- ◆Switched-mode power supply
- ◆Power supply for electric welding machine
- ◆Battery supply
- **♦**Circuitry
- ◆Railway system
- ◆ Variable-frequency speed control system

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/voltage signal can be obtained from output end by sampling.
- ◆ The arrow indicates positive current direction.

Connection and adjustment:

- ♦1: +Vc (+15V)
- ◆2: -Vc (-15V)
- ♦3: Output
- **♦**4: 0V
- ♦OFS: Offset
- ◆GIN: Gain