HDC-2500AK3 Series Hall Current Sensor

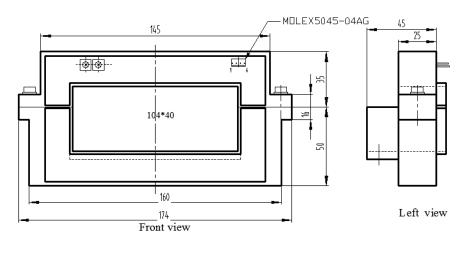
Introduction

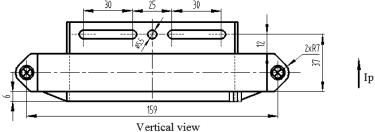
HDC-2500AK3 Series Hall current transducer is the new generation product based on Hall effect. It is able to measure DC, AC, pulse and other currents with irregular waves under the condition of electrical isolation.

△Electrical Parameters (Ta=25°C)

Туре		HDC 1000 A 1/2	HDC 1500AV2	HDC 2000 AV2	HDC 2500 A K2
Parameters	Symbols	HDC-1000AK3	HDC-1500AK3	HDC-2000AK3	HDC-2500AK3
Nominal measuring current	I_{PN}	1000A	1500A	2000A	2500A
Linear range	I_P	$0 \sim \pm 3000 A$	0~±3000A	0~±4000A	0~±4000A
Nominal output voltage	V_{SN}	$\pm 4V\pm 0.04V(R_L=10K \Omega)$			
Zero offset voltage	Vo	$\leq \pm 0.02 V(I_{PN}=0)$			
Temperature drift of bridge offset	V _{OT}	$\leqslant \pm 1 \text{mV}/^{\circ}\mathbb{C}$			
Linear error	ξL	±1%			
Response time	Tr	≤10 µ S			
Supply voltage	Vc	±15V±5%			
Isolation voltage	V_d	5.0KV/50 or 60Hz/1min			
Power dissipation current	I_{C}	±20mA			
Frequency bandwidth	f	DC~50KH _Z (-3dB)			
Operating temperature	Та	-25°C~+85°C			
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