Hall current transducer

Model: YDG-HTD-4-A

Name:

Hall current transducer

YDG-HTD-4-□A□/□ Hall Current Transducer

1. Summary

Aiming at the defect of big temperature drift in hall transducers, compensating circuit is adopted in order to reduce ill effect in measurement accuracy. Hall transducers of YDG series can measure currents and voltages in any wave style. The output can reflect the I/V input in any wave style truly. And the output could be the standard parameters (such as DC $0\sim5$ V, $1\sim5$ V, $0\sim20$ mA, $4\sim20$ mA and so on). The transducers have characters of high accuracy, convenient installment and low price.

Hall transducers of YDG series are applied in frequency inverter, UPS power, communication power, electric melding machine, electric engine, transformer substation, numerical control machine tool, PC control, electric network control and others needing measure currents and voltages separately.

2. Theory

Primary current and final current of the hall transducers are insulated totally. And the transducer can convert DC, AC, pulse current and other signals into linear DC/DV output. The transducer has good temperature characters, linearity, stability, convenient installation and other merits. The two-piece transducer can open and close conveniently.

3. Model specification

4. Technology index

Overload capacity	21 _N	Frequency characteristic	0∼10kHz
Accuracy class	$<$ 1.0 $%_{N}I_{N}$	Insulating endurance	AC2kV/min·1

			mA
Linearity	Excelled 0.2%	Working condition	0~45°C
T drift	Excelled ± 100 ppm/		\pm 12V \sim \pm
		Working power	15V, +12V, +1
			5V+24V
Response time	Less than 100ms	Flame retardancy	UL94-V ₀
Off-tune voltage is less than \pm		Power consumption V output≤30mA	
20mV, off-tune current is less than		I output≤30mA+I _M	
\pm 0. 2mA			

5. Excutive criterion

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6. Model and parameter

Mode I	Input AC, DC/output DC	Pin
YDG-HTD-4- 100A	0 \sim 100A/ DC 0 \sim 5V, 1 \sim 5V, 0 \sim 20 mA, 4 \sim 20 mA	1: positive 2: negative
YDG-HTD-4- 150A	$0{\sim}150$ A/ DC $0{\sim}5$ V, $1{\sim}5$ V, $0{\sim}20$ mA, $4{\sim}$ 20 mA	3: output 4: ground
YDG-HTD-4- 200A	0 \sim 200A/ DC 0 \sim 5V, 1 \sim 5V, 0 \sim 20 mA, 4 \sim 20 mA	
YDG-HTD-4- 300A	0 \sim 300A/ DC 0 \sim 5V, 1 \sim 5V, 0 \sim 20 mA, 4 \sim 20 mA	

7. External dimension

8. Notice

- The power port and the output port should be connected correctly.
- 3) Please do not adjust outer variable resistances at random. If do, circumrotate slowly to the demanded precision by the little screwdriver.

- 4) Get the best measuring precision when current generatrix fill in the hole of primary current fully.
- 5) No electric dust or corrosive metal exist in working condition, altitude is less than 2500 miles.
- 6) When the current direction should be same as the arrowhead direction marked on the box on measurement of DC, the correct direction output will be gotten.