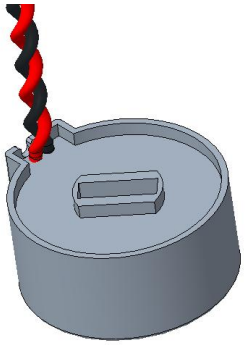
FHCT-058 Current Transformer



Features

- High linearity, small ratio error and phase error, high metering accuracy
- Epoxy resin encapsulation, reliable insulation, moisture-proof and vibration-proof
- Wide operating temperature range, strong environmental adaptability
- Lead wire output, flexible assembly method

■ Performance Summary

Operating Frequency / 工作频率	50~60Hz
Load Resistance / 负载电阻	≤20Ω
Insulation Resistance / 绝缘电阻	1000MΩ/500VDC
Isolation Voltage / 绝缘电压	4KV/min
Operating Temperature / 工作温度	-40℃-85℃
Storage Temperature / 储存温度	-40℃-85℃
Relative Humidity / 相对湿度	≤95% RH
Altitude / 海拔高度	≤4000m
Atmospheric conditions / 大气条件	No gases, vapors, chemical deposits, dust, or other corrosive or explosive media that seriously affect the insulation of the transformer.
Environmental Features / 环保特性	ROHS 2.0

■ Basic Parameters

Rated Primary Current 额定一次电流 Ib (A)	Max Current 最大电流 Imax (A)	Rated Secondary Current 额定二次电流 Is (mA)	Turns Ratio 匝数比 N	Accuracy Class 精度等级 (%)	DC Immunity 抗直流分量 (%)	Magnetic Shielding 磁屏蔽 (T)	Load Resistance 负载电阻 Rb
5	60	2.5	2000：1	0.1，0.2	/	/	5-20
5	60	2	2500：1	0.1，0.2	/	/	5-20
10	60	2.5	2000：1	0.1，0.2	/	/	5-20
10	80	2	2500：1	0.1，0.2	/	/	5-20
10	80	2.5	2000：1	0.1，0.2	/	/	5-20
5	80	2	2500：1	0.1，0.2	/	/	5-20

■ Ordering Information

FHCT-058	1.5A	6A	0.75mA	0.1	10Ω

①：Series/型号

②：Rated primary current/额定一次电流 5~10A

③：Max Current/最大电流 60~80A

④：Rated Secondary Current/额定二次电流 2~2.5mA

⑤：Accuracy Class/精度等级 0.1, 0.2

⑥：Load Resistance/负载电阻 5-20Ω

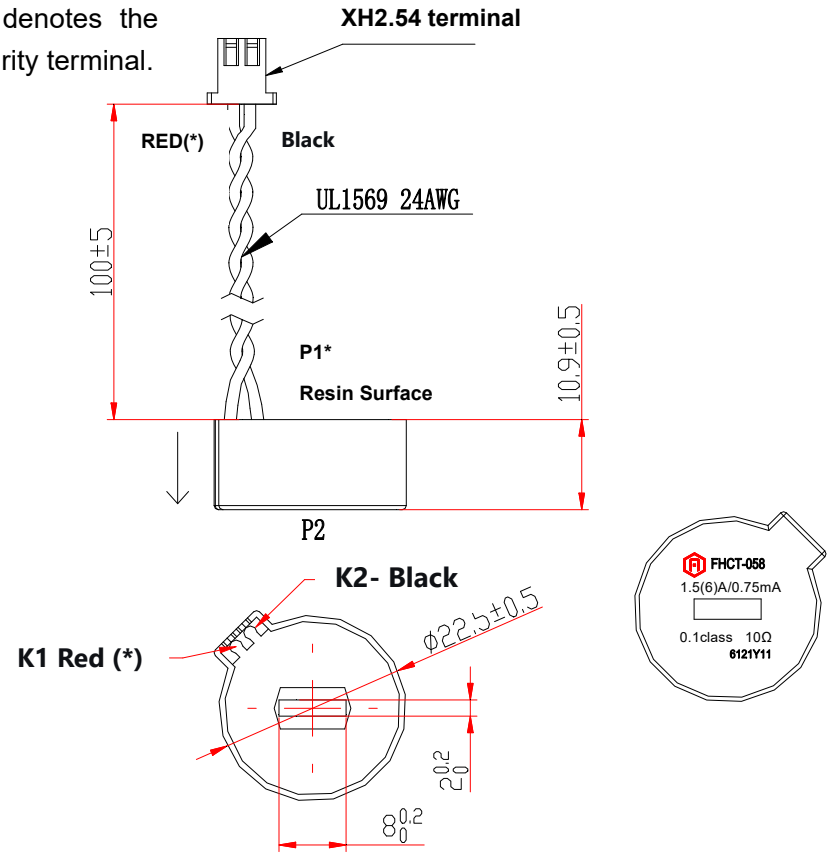
Note: ⑴ If there is a requirement for resistance to external strong magnetic field interference, the magnetic field strength and distance shall be provided together during model selection;

⑵ Basic electrical parameters can be customized to meet customers' actual application requirements.

■ Wiring and Installation Dimension Drawing (Unit: mm)

Outline Drawing

Note: "*" denotes the same-polarity terminal.



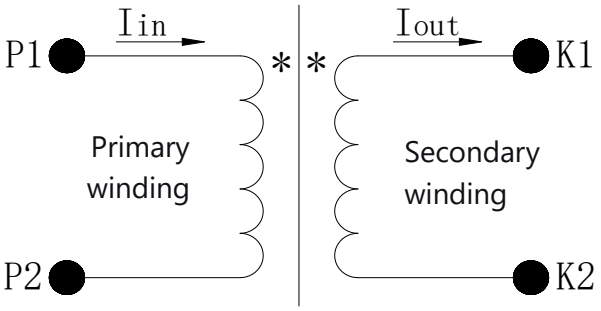
Remarks:

(1) The length, color, and connector type of the secondary lead wires can be customized;

(2) The position of the polarity terminals (same-polarity terminals) can be customized according to requirements;

(3) The marking/printing content can be customized according to requirements.

■ Schematic diagram:



■ Precautions

①Do not bend or pull the lead wires forcefully at the root, to avoid breaking the internal winding;

②The secondary winding must not be left open-circuited, to prevent induced high voltage from damaging the circuit;

③The primary conductor should pass through the through-hole as centrally as possible, to reduce additional error caused by the installation position;

④The secondary load resistance must match the specified parameters; mismatched load will affect metering accuracy;

⑤The withstand voltage test shall not be applied repeatedly, to avoid damage to the winding insulation;

⑥Do not hit or grind the epoxy-encapsulated housing, to prevent degradation of insulation performance.