

Current transformer, CT

DCC no. CTN series released: 2022.04.16

XCX Enterprise Co., Ltd. is a company specializing in the sales of magnetic components and has many years of experience in R&D and manufacturing. The product series we introduce are often used in motor electronics or electronic products. In addition to the common product specifications listed in this table, we also provide various customized products to meet the different needs of customers, such as current transformers, transformers, industrial inductors, magnetic returns, and other products for power systems.



◆ Product introduction

XCX-CT (Current transformer) is a leaded transformer product, mainly designed for smart meters. It can measure current in low voltage system (below 600V) and convert the current into rated current ratio. Provide high-quality materials and design to ensure measurement accuracy and reliability. In addition, a variety of different specifications are available to meet customer needs. XCX-CT can also be used for current measurement in energy monitoring, power management, industrial automation and other fields.

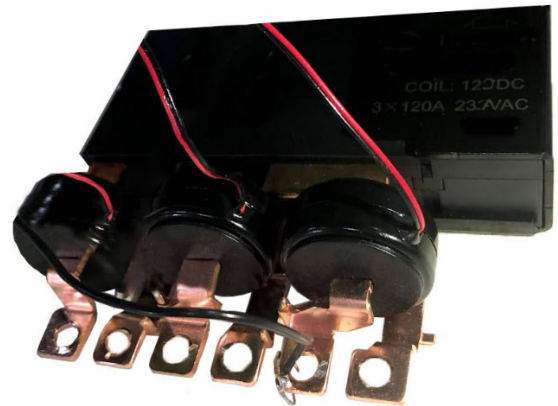
◆ Product characteristics

- For electrical watt-hour meters.
- High linear phase error, easy to compensate.
- Good temperature characteristics.

- Using nanocrystalline/ amorphous cores.
- Small amplitude error.
- Working temperature range: $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$.
- Compact size design, easy to assemble.
- Comply with RoHS and REACH standards.

◆ AC type current transformer

- For electronic watt-hour meter applications.
- Suitable for single-phase and three-phase 120/240V 50/60 Hz applications.
- Conforms to ANSI 12 series standards, rated 20/200/320 amps.



◆ DC type current transformer

- For electronic watt-hour meter applications.
- With DC current anti-interference ability.
- Comply with IEC62 series standards.
- Suitable for 120/240V and 50/60 Hz applications.
- Maximum DC current capability up to 150 Apk.
- AC current up to 480 Apk at rated error.
- Product range: 6~200 A, suitable for DC.

◆ Product application

Applied to electronic watt-hour meters for power measurement and monitoring. Specifically, they are transformers for

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measuring AC and DC current and can be used in both single-phase and three-phase applications. The AC type current transformer is rated at 20/200/320 amperes, while the DC type current transformer has DC current anti-interference capability, the maximum DC current capability can reach 150 Apk, and the AC current can reach 480 Apk under rated error.

the efficiency of the power generation system.



◆ Other applications

In addition to electronic watt-hour meters, XCX-CT (current transformers) can be used in the following applications:

- Power Monitoring: Measure power consumption and analyze energy usage.
- Protection: Measure and sense current, and detect faults and overloads.
- Industrial automation: to monitor the current of equipment and machines, and improve production efficiency.
- Medical equipment: such as electrostimulation therapy and radiation therapy to measure and control electric current.
- Solar power generation: Measure and monitor the current output by solar panels and control

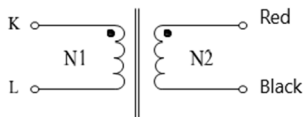
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◆ **Product specifications**

P/N	Package	Shielded	Φ mm(Min)	Primary Current(A)	Inductance (H)	Turns ratio 1:{ }	DCR(Ω)(Max)
CTN-006-PN	Pin		6.0	6	104.0	2000	113.0
CTN-020-WN	Wire		6.5	20	9.3	2500	69.0
CTN-060-WN	Wire		8.6	60	3.1	2500	62.5
CTN-060-WN	Wire		8.6	60	2.3	2500	60.0
CTN-060-WS	Wire	V	8.6	60	3.5	2500	62.0
CTN-080-WN	Wire		8.0	80	3.4	2500	62.5
CTN-080-WS	Wire	V	8.3	80	2.9	2500	60.0
CTN-100-WN	Wire		9.0	100	3.2	2500	50.0
CTN-100-WS	Wire	V	9.4	100	4.3	2500	55.0
CTN-200-WN	Wire		8.5	200	23.7	1000	13.5

◆ **Dimensions (CTN-060)**

■ Schematic



■ Dimensions

