

Split Current transformer, SCT

DCC no. CTS-10, CTS-16, CTS-24, CTS-35 series released: 2022.03.12

XCX company is a 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 rings, etc. for power systems.



◆ Product introduction

XCX-SCT (Split Current transformer, hereinafter referred to as SCT)

It is a transformer product suitable for low-voltage system (below 600V) applications. It provides a complete series of high-quality transformer specifications to meet the various needs of customers. The product is small and convenient in appearance, and adopts an open clip-type design, which can be easily installed without power supply, and at the same time reduces the installation time.

- High safety SCT can separate high voltage and high current, thus greatly improving the safety of the system. When using SCT for power measurement and protection, there is no need to directly connect the measuring instrument to the high voltage line, thereby reducing the risk of injury to the operator.
- High precision: SCT can provide high-precision current measurement, and the measurement error is less than 0.5%. It is commonly used in power monitoring and control systems to ensure accuracy and stability.
- No need to power off: When using SCT, there is no need to power off the operation, and non-contact measurement can be realized, which reduces power outage time and opportunity cost.
- Easy to install: SCT is very easy to install and can be installed in existing electrical equipment without additional modification. Its separate design also makes installation safer and more convenient.

◆ Product application

SCT is mainly used in power system monitoring and protection, it can measure and monitor the current in the circuit for analysis and control. The following are several application introductions of SCT:

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- Power monitoring: Monitoring the current flow in the power system to determine energy consumption. This is important in places such as factories, commercial establishments and residences, and can help users reduce energy costs.
- Power control: Transformer load control, overload protection and short circuit protection, etc., to protect the circuit from damage and ensure the safe operation of the equipment.
- Power Meters: Ammeters, Power Meters, Energy Meters, etc., which are useful for measuring and monitoring current and power in circuits.
- Industrial control: For example: automatic production monitoring and control of motors, motors and other process equipment.

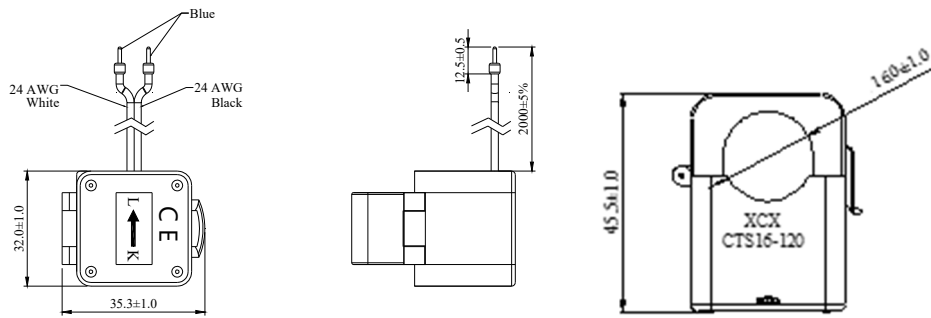
◆ Product specifications

P/N	Φ	Rated primary current (A)	Maximum primary current (A)	Rated secondary current (mA)	Rated sampling voltage (mV)	Load resistance (Ω)	Accuracy (%F.S.)
XCXCT-06-1	6.0	5.0	6.0	2.5	125.00	50.00	1
XCXCT-06-2	6.0	20.0	24.0	10.0	500.00	50.00	1
XCXCT-10-1	10.0	5.0	60.0	2.5	125.0	50.00	0.5/1
XCXCT-10-2	10.0	6.0	60.0	2.0	100.0	50.00	0.5/1
XCXCT-10-3	10.0	60.0	60.0	20.0	1000.0	50.00	0.5/1
XCXCT-16-1	16.0	5.0	80.0	2.5	125.00	50.00	0.5/1
XCXCT-16-2	16.0	6.0	100.0	2.0	100.00	50.00	0.5/1
XCXCT-16-3	16.0	100.0	120.0	40.0	200.00	50.00	0.5/1
XCXCT-16-4	16.0	200.0	240.0	66.7	1500.00	22.50	1
XCXCT-24-1	24.0	50.0	60.0	25.0	1250.00	50.00	1
XCXCT-24-2	24.0	100.0	120.0	20.0	1000.00	50.00	0.5/1
XCXCT-24-3	24.0	200.0	240.0	40.0	2000.00	50.00	0.5/1
XCXCT-24-4	24.0	400.0	480.0	80.0	2000.00	25.00	1
XCXCT-24-5	24.0	100.0	120.0	1000.0	500.00	0.50	1
XCXCT-24-6	24.0	200.0	240.0	1000.0	600.00	0.60	1
XCXCT-24-7	24.0	400.0	480.0	1000.0	1000.00	1.00	1
XCXCT-36-1	36.0	80.0	100.0	40.0	2000.00	50.00	1
XCXCT-36-2	36.0	100.0	120.0	20.0	1000.00	50.00	0.5/1
XCXCT-36-3	36.0	200.0	240.0	40.0	2000.00	50.00	0.5/1
XCXCT-36-4	36.0	400.0	480.0	80.0	2000.00	25.00	1
XCXCT-36-5	36.0	100.0	120.0	1000.0	500.00	0.50	1
XCXCT-36-6	36.0	200.0	240.0	1000.0	600.00	0.60	1
XCXCT-36-7	36.0	400.0	480.0	1000.0	1000.00	1.00	1

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◆ Dimensions (Φ16)



■ Schematic



■ Reference size of other models (based on actual order)