



The 515 series residual current transformer is mainly used in low-voltage power distribution such as 380V and 660V, or in drawer cabinets with relatively high density, to continuously detect and monitor the residual current at the installation node of the corresponding circuit.

The shell of this series of products adopts environmentally friendly flame-retardant ABS engineering plastics, ultrasonic welding technology, high magnetic conductivity nanocrystalline soft magnetic materials, and combines reasonable structural design and rigorous production technology. It has the characteristics of high precision, good balance characteristics, small size, high insulation strength, strong impact resistance, and easy installation. It can work reliably and stably in indoor environments.

In terms of structural design, according to customer needs, space for signal conditioning circuit boards is added, and circuits with signal processing and communication functions can be added inside the product to expand the functions of the product.

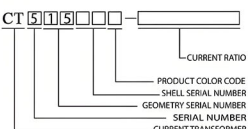
This series of products has a total of 7 specifications and models, which are suitable for residual current monitoring of cable loops. The minimum leakage current value can be detected to be less than 5mA, and the accuracy reaches and exceeds the national standard requirements of GB14287.2. The balance characteristics can be designed according to the use requirements.

The product shell color can be produced according to the customer's specified color to meet different color schemes.

FEATURES

- Signal processing units can be added to expand product functions.
- Strong overload capacity, 20 times the rated current can be overloaded for a long time as needed.
- Excellent balance characteristics, small-size products meet the detector alarm threshold requirement of 30mA.
- High precision: 0.5/1.0/3 levels of precision are optional.
- Compact design, small size, beautiful appearance
- Strong versatility and good interchangeability

NAMING



Color code:
0: black; 2: red; 6: blue; 8: gray;
The shell color specified by the customer is coded and classified according to the main color of the color system;

Normal use and installation conditions

- Installation location: Indoor/outdoor.
- Ambient temperature: -10°C~+40°C.
- Ambient humidity: It is recommended that the relative humidity should not exceed 80%.
- The altitude shall not exceed 3000m.
- Atmospheric conditions: There is no serious pollution, corrosive and explosive media in the atmosphere.
- Environment without significant frequent vibration and shock.
- Storage temperature: -20°C~+75°C.

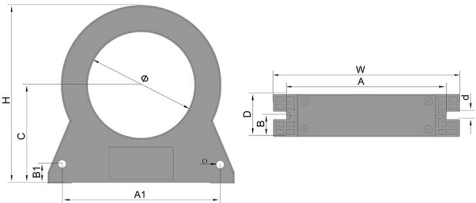
General technical indicators

Technical indicators		Electrical parameters				
Rated primary current	1000mA	5A	5A	10A	10A	
Rated secondary current	0.5mA	2.5mA	5mA	5mA	10mA	
Rated continuous thermal current	2000mA	10A	10A	50A	50A	
Operating frequency	50~60Hz					
Rated accuracy grade	Equal to or better than 0.5					
Operating voltage	≤660V					
Product flame retardant grade	UL94-V0					
Insulation resistance	≥1M ohms@500Vdc					
Power frequency withstand voltage	3KV@2mA\1min\50Hz					
Insulation heat resistance grade	E-Class					

Balance characteristic parameters

Specifications	Main circuit rated working current	Test current	Conductor diameter	Conductor insulation thickness	Residual current characteristics
CT515122	0≤In≤100A	100A	6mm	1.0mm	≤10mA@100A
CT515222	0≤In≤315A	315A	10mm	1.5mm	≤10mA@315A
CT515322	0≤In≤400A	630A	14mm	2.0mm	≤10mA@630A
CT515422	0≤In≤630A	630A	14mm	2.0mm	≤10mA@630A
CT515522	0≤In≤1000A	1000A	20mm	2.0mm	≤10mA@1000A
CT515622	0≤In≤1250A	2000A	50mm	2.0mm	≤30mA@2000A
CT515722	0≤In≤1500A	2000A	50mm	2.0mm	≤30mA@2000A

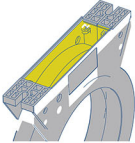
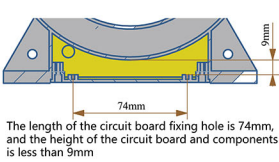
PRODUCTS DIMENSIONS



MODEL	Main circuit current	Aperture	DIMENSIONS (mm)						MOUNTING (mm)			
			H	D	W	A	A1	C	B	B1	d	o
CT515122-45	≤100A	45	99	32	108	93	/	56.5	16	8	5	-
CT515222-65	≤315A	65	120	32	129	114	/	67.5	16	8	5	-
CT515322-80	≤450A	80	135	32	140	120	118.5	74	16	15	6	6
CT515422-100	≤630A	100	159	32	144	120	119.5	87	16	15	6	6
CT515522-120	≤1000A	120	189	32	164	140	126.6	97.5	16	19	6	6
CT515622-150	≤1250A	150	221	32	205	185	164	118.5	16	30	6	6
CT515722-200	≤1500A	200	288	40	272	248	220	152	20	35	6	6

INSIDE SPACE FOR PCB BOARD

- The maximum allowable circuit board size is 78mm*28mm
- The total middle height of the circuit board and components shall not exceed 9mm and the two ends shall not exceed 15mm; the height of the solder joint shall not exceed 3mm
- The fixed size of the circuit board is 74mm*21mm; the diameter of the fixing hole of the circuit board is 2.5mm



Schematic diagram of circuit board installation space