

ode of the corresponding circuit.

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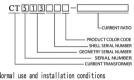
The 513 rectangular series residual current transformer is mainly used in low-voltage distribution cabis such as 380V and 660V, or in drawer cabinets with relatively high density, to continuously detect and mor the residual current at the installation node of the corresponding circuit. The shell of this series of products is made of environmentally friendly flame-retardant ABS engineering ricts and high-magnetic nanocrystalline soft magnetic materials. It has the characteristics of high precision of balance characteristics, small size, high insulation strength, strong impact resistance, and easy institution. It can work reliably and stably in indoor environments. It has the characteristics of high precision. It can work reliably and stably in indoor environments. The S13 rectangular series includes 5 specifications, which are suitable for circuits with a total busbar widt ess than 300mm, and can basically meet the detection of all residual currents in distribution circuits be 1000A. This series of products adopts the most optimized magnetic circuit design, sets the coil winding process cording to the magnetic circuit characteristics, and combines a compact shielding structure, so that the put meets the requirements of product accuracy, sensitivity, balance characteristics, etc. under the premis small size. And the fixed foot of the product adopts a rotating structure design, which can not only recost as much as possible during packaging and transportation, but also play a good protective role for fixed structure.

When installing larger-sized products on the copper busbar loop, it is recommended to use a flat-more than the product of the product of the product of the product of the rectangular through-hole of transformer as much as possible, and it is not advisable to make the busbar to colose to the straight inner of the product.

product. rminal position of this series of products also adopts a standard guide rail structure design, and t ng of the signal processing unit can be mounted on it. This gives the product greater expansion fur

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 Excellent balance characteristics, small—size pr alarm threshold requirement of 50mA.
 High precision: 0.5/1.0/3 levels of precision ar
 Compact design, small size, beautiful appearance
 Strong versatility and good interchangeability



Color code:
0: black; 3: red; 8 GREY 9 WHITE
The shell color specified by the customer
is coded and classified according to the
main color of the color system;

- Installation location: Indoor/out
 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 r serious pollution, corrosive and explosive media in the atmosphere.

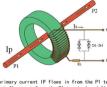
 Environment without significant frequent vibration and shock.

 Storage temperature: -20°C"+75°C.

ral technical indicators

Technical indicators	Electrical parame			ters	
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-Clas	s	

Electrical Schematic



code	Code Description
IP	Measured current/input current
IS	Secondary output current
P1/P2	Measured current input/output terminal
S1/S2	Secondary current output/input terminal
RL	Secondary internal resistance of transformer
D1-D4	Clamping diode (A7)

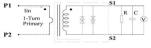
- from the P1 terminal and out from the P2 terminal and flows in from the S2 terminal. ed-pole same-name relationship, that is, the secon terminal are same-name terminals to indicate s use a reduc
- The output curre of the secondary side of the residual current transformer is generally small.
- IP+NI=IS+NZ, generally the primar parameters are specified according passing through the residual cur-the current size of the loop cable.

 The product contains a voltage of to customer design during product is 1A, the secondary rated current is 0.5mA, or on: Ip is the vector sum of the currents of the c window loop, and has no significant correlation

Balance characteristic parameters

Specifications	Main circuit rated working current	Test current	Conductor diameter	Conductor insulation thickness	Residual current characteristics
CT513603	0≤In≤100A	100A	6mm	0.5mm	≤5mA@100A
CT513703	0≤In≤250A	315A	10mm	1.5mm	≤10mA@315A
CT513803	0≤In≤400A	630A	14mm	2.0mm	≤20mA@630A
CT513903	0≤In≤630A	630A	14mm	2.0mm	≤20mA@630A
CT513003	0≤In≤1000A	1000A	20mm	2.0mm	≤30mA@1000A

When the residual current transformer passes the corresponding sinusoidal AC current, its output sampling value voltage should meet the requirements in the following table.



Current source frequency: 50-60Hz; accur AC mV sampling accuracy better than 0.1%

DIMENSIONS

MODEL Main circuit current	Main	Aperture	DIMENSIONS (mm)			MOUNTING (mm)	
	.,	L	w	н	D1-D2	N	
CT513603	≤100A	112-25	152	32	77	153.5-163.5	6
CT513703	≤250A	142-35	186	32	91	185-198.5	6
CT513803	≤400A	192-40	240	32	100	245.5-257	6
CT513903	≤630A	232-45	282	32	107	284.5-298	6
CT513003	≤1000A	300-60	368	45	140	388-368	6