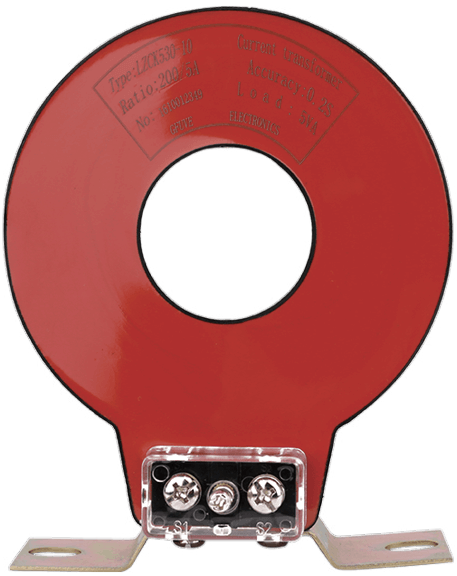
LZCG530-10

HIGH PRECISION 0.2S 100/5A 20KV MEDIUM VOLTAGE CURRENT TRANSFORMER

The Model LZCG530-10 series straight-through ct is a ring type resin casting current transformer. It is suitable for current measurement and microcomputer protection of electrical equipment in 10KV and 35KV AC power system. It is widely used in not only compact fully insulated ring network switchgears such as ABB-Safe Ring/Safe Plus, Unstitch, Schneider RM6, SM6, Siemens 8DJ10/8DH10, Simosec, FBX, Fluokit, Omar Garbo GA, GAE; SEL TPS(Q); VEI Unifluorc; Eaton SVS/12 ring network, but also cable distribution boxes because of its small size, light weight, operable and convenient installation. It is very convenient that the transformer can be directly installed at the inlet and outlet cables.



New magnetic material is taken to be the core of the current transformer, which has high magnetic permeability, low saturation magnetization and good stability. Therefore, the measuring accuracy is higher and the instrument security factor is lower. Since the high quality silicon processed by advanced technology is taken to be the core of the protection windings, which assured the accuracy limit factor is higher.

The semicircular ring core and secondary windings are vacuum poured by high quality epoxide resin in the fire retardant plastic casing, which has the characteristic of moisture proof, stable performance and dispensing with maintenance.Small size, light weight, small footprint, fixed in the ring network switchgear cable.The cable can cross the current transformer through its internal poles quickly and uniformly.

The Cast Resin Straight-Through Current Transformer can be divided several kinds according to the various current ratio, accuracy and rated loads. The specific parameters are showed in the corresponding to each model parameter tables.

All of our current transformers are strictly comply IEC60044-1, IEC 61869-2, NTC 2205, GB1208-2006, ANSI/IEEE C57.13.

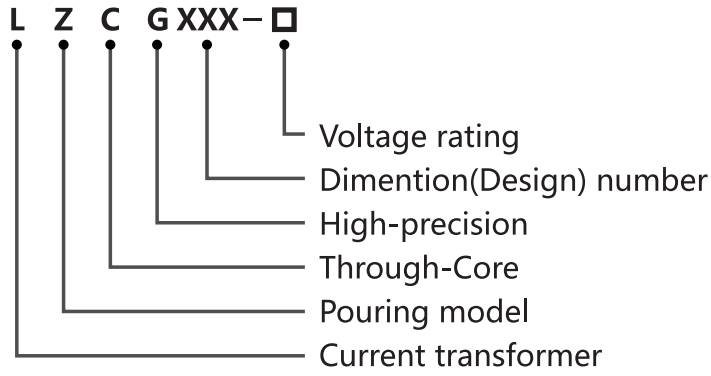
Appliations

1. Measuring instrument;
2. MV switchgears;
3. Meter tester;
4. Current load monitoring;
5. Distribution boxes;
6. Energy meter;
7. Low voltage metering system;
8. Power Quality meter;
9. Power Meter;
10. Distribution Power transformer monitor system;
11. Ring network cabinet;

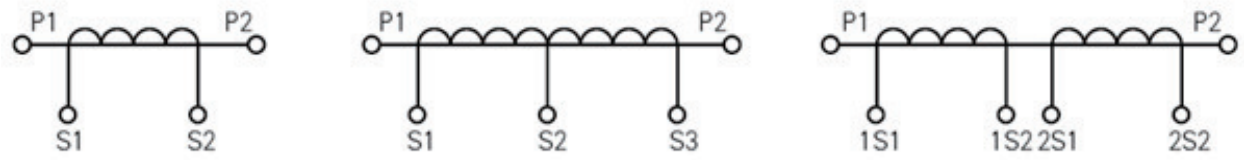
Features

1. Measurement range 0-1000A AC;
2. Secondary windings are vacuum poured by insulated resin;
3. 100/5A, 200/5A, 300/5A, 400/5A, 500/5A, 600/5A, 750/5A, 800/5A, 1000/5A;
4. High precision 0.2s,0.2%, 0.5%;
5. Protection class 5P20, 5P10, 10P10, 10P5;
6. Holding wire diameter: ϕ45mm;
7. Size:ϕ45xϕ120x65;
8. High magnetic conductivity silicon steel material;
9. IEC60044-1, IEC 61869-2, , NTC 2205, GB1208-2006, ANSI/IEEE C57.13;
10. Using life more than 20 years;
11. Easily installation, with mounting bracket ;
12. Support Dual Ratio;

Model meaning



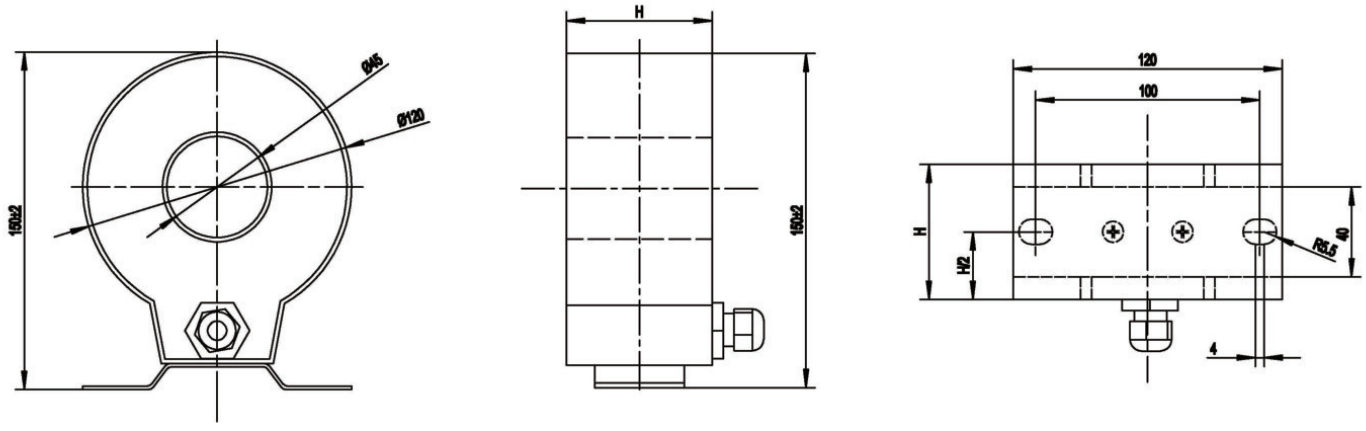
Wiring Diagrams



Single winding Secondary winding with tap Double winding

P1, P2 is primary polarity terminal, S1, S2 is secondary polarity terminal.
P2, S2 is homonymous terminals (subtractive polarity).

Outline drawing



Parameters

Technical parameters	
Standards	IEC60044-1; IEC 61869-2; NTC 2205; ANSI/IEEE C57.13; GB1206-2006;
Accuracy Class	0.2S, 0.2, 0.5S, 0.5 (IEC60044-1 standard)
Rated primary current	30-1000A
Rated load	≤20VA
Rated frequency	50Hz or 60Hz
Rated secondary current	5A or 1A
Ratio	100/5A, 150/5A, 200/5A, 300/5A, 400/5A, 500/5A...1000/5A
Rated short-time thermal current	40kA, 1S
Rated continuous thermal current	120%I1n
Secondary winding power-frequency voltage	3kV, 1min
Instrument security factor	FS ≤10
Insulation Class	E
Material	polyurethane +Silicon steel sheets+Enameled wire+ABS
Mechanical parameters	
Dimensions (W×D×H) (mm)	ϕ45xϕ120x65
Jaw cable diameter(mm)	45
Weight (kg)	2.1
Operating conditions	
Operating temperature	-40°C to +70°C
Daily average temp	<+40°C
Storage temperature	-40°C to +70°C
Altitude	<3500 meters
Condition	No existence of severely begrimed, erosive and radioactive gas in the air. Permission of long-term operation under rated current.

Technical Data

Type	LZCG530-10			
Purpose	Measuring current transformer			
Rated primary current (AMP)	Accuracy class and rated load(VA)			
	0.2S	0.2	0.5S	0.5
50	2.5	2.5	5	5
100	2.5	5	7.5	7.5
150	5	7.5	10	10
200	7.5	10	15	15
300	10	15	15	15
400	15	15	15	15
500	20	20	20	20
600	20	20	20	20
750	20	20	20	20
800	20	20	20	20
1000	20	20	20	20
Purpose	Protection current transformer			
Rated primary current (AMP)	Accuracy class and rated load(VA)			
	5P20	5P10	10P15	10P10
30	1	1	1	1
40	1	1	1	1
50	2	2	2	2
75	2	2	2	2
100	2.5	2.5	2.5	2.5
150	2.5	2.5	2.5	2.5
200	5	5	5	5
300	5	5	5	5
400	7.5	7.5	7.5	7.5
500	10	10	10	10
600	10	15	15	15
Purpose	Double winding current transformer			
Rated primary current (AMP)	Composite accuracy class and rated load(VA)			
	0.2S	0.5	10P15	10P10
100	2.5	2.5	2	2
150	2.5	3.75	2	2.5
200	5	7.5	2.5	3.75
300	7.5	10	2.5	5
400	10	12.5	3.75	5
500	15	15	3.75	5
600	15	20	3.75	7.5

Selection Guide

Model	Primary rated current	Rated load	Aperture (mm)	Description (mm)	Weight (kg)
LZCK310-10	300-1000A	≤10VA	ϕ50	ϕ50 x ϕ110 x 32	1
LZCK322-10	30-1000A	≤10VA	ϕ50	ϕ50 x ϕ110 x 52	1.6
LZCK350-10	30-1000A	≤25VA	ϕ50	ϕ50 x ϕ110 x 105	3.1
LZCK720-10	30-1000A	≤25VA	ϕ80	ϕ80 x ϕ110 x 50	2.1
LZCK2500-10	30-3000A	≤30VA	ϕ120，140，160	ϕ120 x ϕ185 x 100	7
LZCG530-10	30-1000A	≤20VA	ϕ45	ϕ45 x ϕ120 x 65	2.1
LZCG930-10	30-1500A	≤25VA	ϕ60	ϕ60 x ϕ155 x 60	3.6
LZCT722-10	30-1500A	≤10VA	ϕ82	ϕ82 x ϕ130 x 55	2.3
LZCG2500-10	30-3000A	≤30VA	ϕ120，140，160	ϕ120 x ϕ185 x 100	7