

LZCG2500-10

MEDIUM VOLTAGE 100/5A PROTECTION ZCT ZERO SEQUENCE CURRENT TRANSFORMER 5P20

The Model LZCG2500-10 ZCT is a ring type resin casting zero sequence current transformer. Some clients also called it as zero phase current transformer & TTCC. This current transformer can be used both for measurement and micro-computer protection of electrical equipment in 11KV and 35KV AC power system such as ABB-Safe Ring/Safe Plus...and cable distribution boxes.

We used imported silicon material and using our mature advanced producing technology we make sure our transformer has very good linear and more than 20 years using life in order to be qualified with all the jobs. The ring core and secondary windings are vacuum poured by high quality epoxide insulated resin ,which has the characteristic of moisture proof, stable performance and dispensing with maintenance. Current transformer protection class 5P20, 5P10, 10P20, 10P10, 10P5.

All of our GFUVE zero sequence current transformers are strictly comply IEC60044-1, IEC 61869-2, ANSI/IEEE C57.13, GB1208-2006, GB/T 20840.1-2010, GB/T20840.2-2014, GB/T 22071.1-2018, IEC/EN61010-2-032, IEC/EN 61010-2-031.

Applications

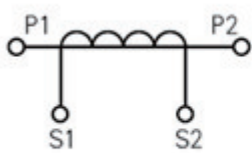
1. Meter tester;
2. Energy meter;
3. Power Meter;
4. MV switchgears;
5. Air switch cabinet;
6. Distribution boxes;
7. Ring network cabinet;
8. Power Quality meter;
9. Measuring instrument;
10. Protective relay device;
11. Current load monitoring;
12. Low voltage metering system;
13. Three phase power transformer;
14. Medium voltage metering system;
15. Distribution Power transformer monitor system;



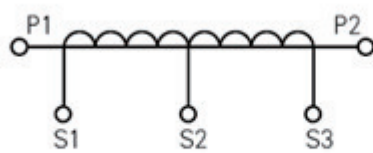
Features

1. Support Dual Ratio;
2. Polyurethane resin casting;
3. Accuracy class 0.5s, 0.5%,1;
4. Using life more than 20 years;
5. Measurement range 0-3000A AC;
6. As protection CT & measurement CT;
7. Easily installation, with mounting bracket ;
8. High magnetic conductivity silicon steel material;
9. Protection class 5P20, 5P10, 10P15, 10P10, 10P5;
10. The protection level CT can accept customized design;
11. Holding wire diameter: $\phi 120\text{mm}$, $\phi 140\text{mm}$, $\phi 160\text{mm}$;
12. As a measurement and protection current transformer;
13. Size: $\phi 120 \times \phi 185 \times 100$, $\phi 140 \times \phi 210 \times 100$, $\phi 160 \times \phi 250 \times 80$;
14. Secondary windings are vacuum poured by insulated resin;
15. 50/5A, 100/5A, 200/5A, 300/5A, 400/5A, 500/5A, 600/5A, 800/5A, 1000/5A...
16. 100/1A, 200/1A, 300/1A, 400/1A, 500/1A, 600/1A, 750/1A, 800/1A, 1000/1A...
17. IEC60044-1, IEC/EN 61869-2, NTC 2205, GB/T 20840.2-2014, ANSI/IEEE C57.13;

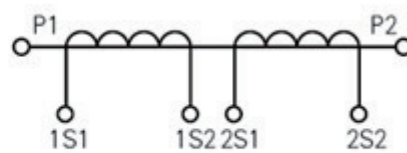
Wiring Diagrams



Single winding



Secondary winding with tap



Double winding

Parameters

Technical parameters	
Standards	IEC60044-1; IEC 61869-2; NTC 2205; ANSI/IEEE C57.13; GB1208-2006; GB/T 20840.1-2010, GB/T 20840.2-2014, GB/T 22071.1-2018
Accuracy Class	0.2S, 0.2, 0.5S, 0.5,1 (IEC61869-2 standard) 5P20, 5P10, 10P10, 10P15, 10P5
Rated primary current	50-3000A
Rated load	≤30VA
Rated frequency	50Hz or 60Hz
Rated secondary current	5A or 1A
Ratio	50/5A, 100/5A, 150/5A, 200/5A, 300/5A, 400/5A, 500/5A, 1000/5A...3000/5A
Rated short-time thermal current	40kA, 1S
Rated continuous thermal current	120%I _n
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)	φ120×φ185×100, φ140×φ210×100, φ160×φ250×80
Jaw cable diameter(mm)	120, 140, 160
Weight (kg)	7, 8, 9
Operating conditions	
Operating temperature	-40°C to +70°C
Daily average temp	< +40°C
Storage temperature	-40°C to +70°C
Environment	indoors
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	LZCG2500-10				LZCG2500-10				LZCG2500-10			
Purpose	Measuring current transformer				Protection current transformer				Double winding current transformer			
Ratio	Accuracy class and rated load(VA)				Accuracy class and rated load(VA)				Composite accuracy class and rated load (VA)			
I_1/I_2	0.2	0.5	1	3	5P20	10P15	10P10	10P5	0.5	1	10P10	10P5
100/1		2	2.5	5	2.5	2	2.5	5	2	2.5	1.5	2
200/1		2	2.5	5	2.5	3	5	7.5	2.5	2.5	2	2
300/1		2.5	3.75	5	2.5	3	5	7.5	3.75	3.75	2.5	2.5
400/1		2.5	5	10	2.5	3	5	10	5	5	2.5	2.5
500/1		2.5	5	10		3.75	6.25	10	5	5	2.5	2.5
600/1		5	7.5	10		5	7.5	10	5	5	5	5
750/1	2.5	5	7.5	10					5	5	5	5
800/1	2.5	5	10	15					5	5	5	5
1000/1	5	5	10	15					5	5	5	5
1200/1	5	10	15	20		10	10	10	10	15	2.5	5
1500/1	5	10	15	20		10	10	10	10	15	2.5	5
1600/1	10	20	25	30		10	10	10	10	15	2.5	5
2000/1	10	20	25	30		10	10	10	10	15	2.5	5
50/5				2.5	2.5			2				
75/5				2.5	2.5			2.5				
100/5				2.5	2.5			2.5		2.5		2.5
200/5				2.5	2.5			5	2.5	5		2.5
300/5		5	5	5	2.5	2.5	5	7.5	5	5	2	2.5
400/5		5	5	5	2.5	2.5	5	7.5	5	7.5	2.5	5
500/5		5	7.5	10	5	5	7.5	10	5	7.5	2.5	5
600/5		5	7.5	10	5	5	7.5	10	5	10	2.5	5
750/5	2.5	7.5	10	15	5	5	10	10	7.5	10	2.5	5
800/5	2.5	7.5	10	15	5	5	10	10	7.5	15	2.5	5
1000/5	5	10	15	20	5	10	10	10	10	15	2.5	5
1200/5	5	10	15	20		10	10	10	10	15	2.5	5
1500/5	5	10	15	20		10	10	10	10	15	2.5	5
1600/5	10	20	25	30		10	10	10	10	15	2.5	5
2000/5	10	20	25	30		10	10	10	10	15	2.5	5
2500/5	15	20	25	30		10	10	10	10	15	2.5	5
3000/5	15	20	25	30		10	10	10	10	15	2.5	5

Selection Guide

Model	Primary rated current	Rated load	Aperture (mm)	Description (mm)	Weight (kg)
LZCK310-10	300-600A	≤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	50-2000A	≤25VA	φ120, 140, 160	φ120 x φ185 x 100 φ140 x φ210 x 100 φ160 x φ250 x 80	7, 8, 9
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 φ140 x φ210 x 100 φ160 x φ250 x 80	7, 8, 9

Ordering Information

Be sure to the type, current ratio, accuracy class, rated load and use of the products when you plan to make a order. Special specifications could be customized. All kinds of different specifications and parameters current transformers can be made according to your needs.