

LZCK720-10

MEDIUM VOLTAGE ELECTRICAL MEASUREMENT & PROTECTION DRY TYPE SPLIT CORE CURRENT TRANSFORMER

The Model LZCK720-10 split core ct is a ring type resin casting split core current transformer. Some clients also called it as TTCC. This model can be used both for measurement and microcomputer protection of electrical equipment in 11KV and 35KV AC power system of ring network switchgears 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 semicircular ring core and secondary windings are vacuum poured by insulated resin.

All of our split core current transformers are strictly comply IEC60044-1, IEC 61869-2, ANSI/IEEE C57.13, NTC 2205, GB1208-2006, GB/T 20840.1-2010, GB/T 20840.2-2014, GB/T 22071.1-2018.

Features

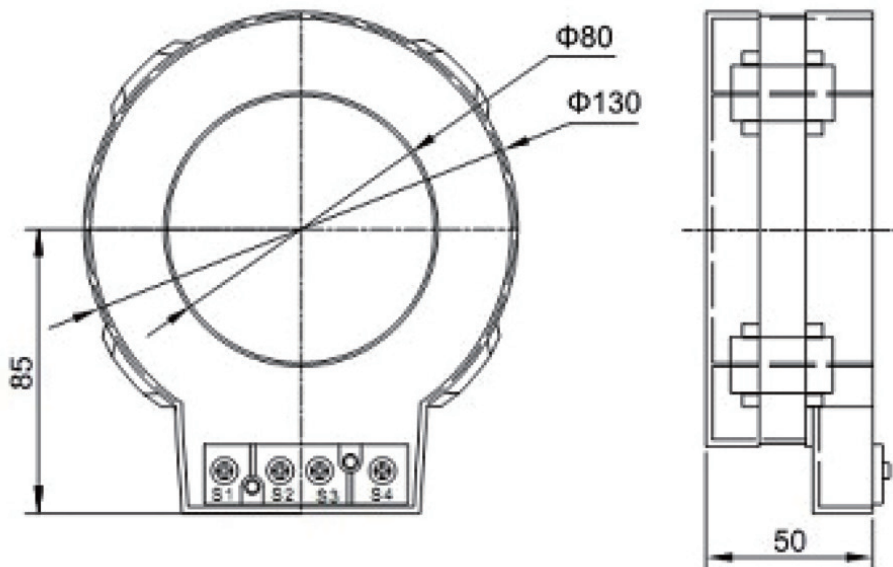
1. Support Dual Ratio;
2. Size: $\phi 80 \times \phi 130 \times 50$;
3. High precision 0.5S, 0.5%, 1%;
4. Using life more than 20 years;
5. High precision 0.5S, 0.5%, 1%;
6. Holding wire diameter: $\phi 80 \text{mm}$;
7. Measurement range 0-1500A AC;
8. High magnetic conductivity silicon steel material;
9. Easily installation with electricity, with mounting bracket;
10. Secondary windings are vacuum poured by insulated resin;
11. Secondary windings are vacuum poured by polyurethane resin cast;
12. 300/5A, 400/5A, 500/5A, 600/5A, 750/5A, 800/5A, 1000/5A, 1250/5A, 1500/5A;
13. 100/1A, 200/1A, 300/1A, 400/1A, 500/1A, 600/1A, 750/1A, 800/1A, 1000/1A, 1500/1A;
14. IEC60044-1, IEC 61869-2, ANSI/IEEE C57.13 , NTC 2205, GB1208-2006, GB/T 20840.1-2010, GB/T 20840.2-2014, GB/T 22071.1-2018;



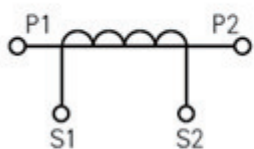
Applications

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

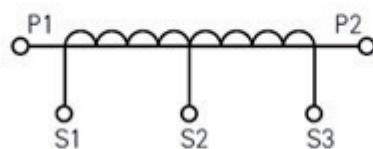
Outline drawing



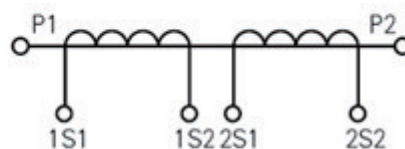
Wiring Diagrams



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).

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	0.5S, 0.5%, 1%, 3%
Range of primary rated current	100-1500A
Range of Rated load	≤25VA
Rated frequency	50/60Hz
Rated secondary current	5A, 1A
Rated short-time thermal current	40kA, 1S
Rated continuous thermal current	120%I _n
Secondary winding power frequency withstand voltage	3kV, 1min
Safety Factor Rating	(FS) <10
Safety	CAT IV 600V IEC/EN 61010-1
Insulation Class	E
Material	Polyurethane +Silicon steel sheets+Enameled wire+ABS
Mechanical parameters	
Dimensions (W×D×H) (mm)	φ80×φ130×50
Jaw cable diameter(mm)	80
Weight (kg)	2.1
Color	Red+black
Working conditions	
Operating temperature	-40°C to +70°C
Storage temperature	-40°C to +70°C
Environment	indoors
Altitude	<3500 meters
Conditions	No existence of severely begrimed, erosive and radioactive gas in the air. Permission of long-term operation under rated current.

Specification

Type	LZCK720-10			LZCK720-10			LZCK720-10			
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	0.5	1	3	10P15	10P10	10P5	0.5	1	10P10	10P5
100/1	1	2	2			1	2	2.5	1.5	2.5
200/1	2.5	2.5	5			2.5	2.5		2	
300/1	2.5	3.75	5	2.5	2.5	3.75	3.75		2.5	
400/1	2.5	5	5	2.5	3.75	5	5		2.5	
500/1	5	5	7.5	5	5	7.5	5		2.5	
600/1	5	5	7.5	5	7.5	10	7.5		2.5	
750/1	5	5	7.5							
800/1	5	5	7.5							
1000/1	5	5	7.5							
1200/1	5	5	7.5							
1250/1	5	5	7.5							
1500/1	5	5	7.5							
100/5										2.5
200/5							2.5	2.5		2.5
300/5	2.5	2.5	5			1	2.5	2.5	2	2.5
400/5	2.5	2.5	5			2.5	5	5	2.5	5
500/5	5	5	7.5		2.5	3.75	5	5	2.5	5
600/5	5	5	7.5		3.75	5	5	5	2.5	7.5
750/5	5	5	7.5		5	7.5				
800/5	5	5	7.5		7.5	10				
1000/5	10	10	15		7.5	10				
1200/5	10	10	15		7.5	10				
1250/5	10	10	15		7.5	10				
1500/5	10	10	15		7.5	10				

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	≤15VA	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