

LZCK-120

IP67 2000/5A SPLIT CORE CT FOR DISTRIBUTION TRANSFORMER POWER MONITOR

The model LZCK-120 outdoor split core CT are applicable for AC power system 35kV and measurement of current of power supply equipment below 10KV also can be used for microcomputer protection. And the calmp Transformer is compatible with Distribution Transformer Monitor and provides high quality power parameter quality signal for the monitor to control, measure and monitor the energy quality and so on in grid system. The LZCK-120 split core ct applies to the outdoor electric power system with frequency 50Hz or 60Hz, its ingress protection is IP67. This type of current transformer employs imported silicon steel which with high permeability as magnetic material, has the characteristics of Small magnetic circuit loss and can be split, its semicircular core and secondary windings employ high quality epoxy resin vacuum, casting in plastic-case(ABS or PC) which is high accuracy, fire-proof, ultraviolet-proof and explosion-proof, maintenance-free, stable and reliable performance, easy installation, long-life etc.

All of our outdoor 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.

Applications

1. Energy meter;
2. Power Meter;
3. MV switchgears;
4. Load monitoring;
5. Metering device;
6. Distribution boxes;
7. Power Quality meter;
8. Low voltage metering system;
9. Cable fault monitoring system;
10. Reactive compensation device;
11. Leakage current protection system;
12. Energy consumption monitoring system;
13. Distribution transformer power monitor system;



Features

1. Support Dual Ratio;
2. Long-Life technology design;
3. High magnetic silicon steel core;
4. High precision 0.2s, 0.2, 0.5s, 0.5;
5. Measurement range 0-3000A AC;
6. Holding wire diameter: $\phi 120\text{mm}$;
7. Easily installation with electricity;
8. IP67 level outdoor industrial design;
9. CT with outdoor cable, integrated design;
10. Clamp type structure current transformer;
11. High quality current transformer outdoor;
12. Cable length 1m, 2.5m, 5m, 7m, 10m etc optional;
13. With CNAS Type tests and routine tests certificate;
14. Secondary windings are vacuum poured by insulated resin;
15. Secondary signal voltage output 333mV, 500mV, 1V, 5V etc optional;
16. 100A/1V, 200A/1V, 300A/1V 1000A/1V, 1500A/1V, 2000A/1V, 2500/1V, 3000/1V;
17. 100A/5V, 200A/5V, 300A/5V 1000A/5V, 1500A/5V, 2000A/5V, 2500/5V, 3000/5V;
18. 500/5A, 600/5A, 750/5A, 800/5A, 1000/5A, 1200/5A, 1400/5A, 1500/5A, 1600/5A, 1800/5A, 2000/5A, 2500/5A, 3000/5A;
19. 100A/333mV, 200A/333mV, 300A/333mV 1000A/333mV, 1500A/333mV, 2000A/333mV, 2500/333mV, 3000/333mV;
20. 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;
21. 50A/20mA, 100A/50mA, 200A/40mA, 300A/300mA 1000A/250mA, 1000A/500mA, 2000A/500mA, 2500A/500mA, 3000A/500mA;
22. 100/1A, 200/1A, 300/1A, 400/1A, 500/1A, 600/1A, 750/1A, 800/1A, 1000/1A, 1200/1A, 1400/1A, 1500/1A, 1600/1A, 1800/1A, 2000/1A, 2500/1A, 3000/1A;

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%, 3%
Range of primary rated current	100-3000A
Range of Rated load	≤20VA
Rated frequency	50/60Hz
Rated secondary current	5A, 1A, 20mA, 40mA, 50mA, 100mA, 500mA etc
Rated short-time thermal current	40kA, 1S
Rated continuous thermal current	150%I _n
Secondary winding power frequency withstand voltage	3kV, 1min
Safety Factor Rating	(FS) <10
Output signal	1A, 5A, 333mV, 1V or 5V(customized)
Safety	CAT IV 600V IEC/EN 61010-1
Insulation Class	E
Flame retardant ABS and UV plastic shell inside, jaw waterproof apron.	
Mechanical parameters	
Aperture (mm)	Φ120
Dimensions (W×D×H) (mm)	225×204×64
Weight (kg)	3.2
Length of Cable	2.5 M(standard), 5M, 7M, 10M or customized
Cable information	2*16AWG ,Voltage: 400/720V, outdoor+UV
Color	Orange, black or customized
Working conditions	
Operating temperature	-40°C to +70°C
Storage temperature	-40°C to +70°C
Ingress Protection	IP67
Environment	outdoors or indoors
The Height of above sea level	0- 3000m
Conditions	No existence of severely begrimed, erosive and radioactive gas in the air. Continuous working under the rated current is allowed.

Specification

Type	LZCK-120(2.5m outdoor cable)			
Purpose	Measuring current transformer			
Ratio	Accuracy class and rated load(VA)			
I_1/I_2	0.5S	0.5	1	3
100/1		0.1	1	2.5
150/1		0.1	1	2.5
200/1	1	2.5	2.5	2.5
250/1	1	2.5	2.5	2.5
300/1	1	2.5	2.5	2.5
400/1	2.5	2.5	2.5	2.5
500/1	2.5	2.5	5	5
600/1	2.5	2.5	5	5
800/1	2.5	2.5	5	5
1000/1	2.5	2.5	5	5
1200/1	2.5	2.5	5	5
1400/1	2.5	2.5	5	5
1500/1	5	5	10	10
2000/1	5	5	10	10
2500/1	5	5	10	10
3000/1	5	5	10	10
100/5			2.5	2.5
150/5			2.5	2.5
200/5	2.5	2.5	5	5
250/5	2.5	2.5	5	5
300/5	5	5	5	5
400/5	5	10	10	10
500/5	5	10	10	10
600/5	5	10	10	10
800/5	5	10	10	10
1000/5	5	10	10	10
1200/5	5	10	10	10
1400/5	5	10	10	10
1500/5	10	10	15	15
2000/5	10	10	15	15
2500/5	10	10	15	15
3000/5	10	10	15	15

Ratio	Accuracy class			
I_1/I_2	0.2S	0.2	0.5S	0.5
100/333mV	Y	Y	Y	Y
150/333mV	Y	Y	Y	Y
200/333mV	Y	Y	Y	Y
250/333mV	Y	Y	Y	Y
300/333mV	Y	Y	Y	Y
400/333mV	Y	Y	Y	Y
500/333mV	Y	Y	Y	Y
600/333mV	Y	Y	Y	Y
800/333mV	Y	Y	Y	Y
1000/333mV	Y	Y	Y	Y
1200/333mV	Y	Y	Y	Y
1400/333mV	Y	Y	Y	Y
1500/333mV	Y	Y	Y	Y
2000/333mV	Y	Y	Y	Y
2500/333mV	Y	Y	Y	Y
3000/333mV	Y	Y	Y	Y

Selection Guide

Model	Primary rated current	Secondary output	Rated load	Aperture (mm)	Description (mm)	Weight (kg)
LZCK-36	30-600A	5A,1A, 333mV, 1V, 5V, 20mA, 40mA, 50mA, 100mA, 500mA etc	≤10VA	Φ36	128×120×85.5	1.25
LZCK-55	30-1000A	5A,1A, 333mV, 1V, 5V, 20mA, 40mA, 50mA, 100mA, 500mA etc	≤10VA	Φ55	180×138×52	2
LZCK-80	50-2000A	5A,1A, 333mV, 1V, 5V, 20mA, 40mA, 50mA, 100mA, 500mA etc	≤10VA	Φ80	185×164×60	2.5
LZCK-120	100-3000A	5A,1A, 333mV, 1V, 5V, 20mA, 40mA, 50mA, 100mA, 500mA etc	≤20VA	Φ120	225×204×64	3.2
LMCK185-10	100-5000A	5A,1A, 333mV, 1V, 5V, 20mA, 40mA, 50mA, 100mA, 500mA etc	≤25VA	Φ185	350×284×86	4.5