

LZCK-80

IP68 Outdoor Waterproof High Accuracy 0.5s Split Core Current Transformer

The model LZCK-80 IP68 outdoor split core current Transformer 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 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-80 split core current transformer applies to the outdoor electric power system with frequency 50Hz or 60Hz, its ingress protection is IP68. 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, etc.

All of our split core current transformers are strictly comply IEC60044-1, IEC 61869-2, NTC 2205, GB1208-2006, GB20840.1 & 2, ANSI/IEEE C57.13.

Features

1. Support Dual Ratio;
2. High precision 0.5s;
3. Long-Life technology design;
4. Holding wire diameter: $\phi 80\text{mm}$;
5. Easily installation with electricity;
6. Measurement range 0-2000A AC;
7. Clamp type structure current transformer;
8. Distribution transformer power monitoring;
9. Secondary windings are vacuum poured by insulated resin;
10. IP68 level outdoor, submersible, waterproof industrial design;
11. 300/5A, 400/5A, 500/5A, 600/5A, 800/5A, 1000/5A, 1250/5A, 1500/5A, 2000/5A;
12. IEC60044-1, IEC 61869-2, , NTC 2205, GB1208-2006, GB20840.2, ANSI/IEEE C57.13;



Applications

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

Parameters

Technical parameters

Standards	IEC60044-1; IEC 61869-2; NTC 2205; GB1208-2006; GB/T20840.2; ANSI/IEEE C57.13
Accuracy Class	0.5S, 0.5%, 1%, 3% (IEC61869 standard)
Range of primary rated current	100-2000A
Range of Rated load	≤20VA
Rated frequency	50/60Hz
Rated secondary current	5A or 1A
Rated short-time thermal current	40kA, 1S
Rated continuous thermal current	150%I _n
Secondary winding power frequency withstand voltage	3kV, 1min
Safety standard	CAT IV 600V IEC/EN 61010-1
Safety Factor Rating	(FS) <10
Output signal	1A, 5A or customized
Insulation Class	E

Flame retardant ABS and UV plastic shell inside, jaw waterproof apron.

Mechanical parameters

Aperture (mm)	Φ80
Dimensions (W×D×H) (mm)	185×164×60
Length of Cable	2.5 M(standard), 5M, 10M or customized
Cable information	2*16AWG ,Voltage: 400/720V, outdoor+UV
Weight (kg)	2.5
Color	Black, orange or customized

Working conditions

Operating temperature	-40°C to +70°C
Storage temperature	-40°C to +70°C
Ingress Protection	IP68 (IEC 60529)
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.

GFUVE company provide outdoor split core ct scheme design customized services!

Technical Data

Type	LZCK-80(2.5m 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	1.5	2.5
150/1		0.1	1.5	2.5
200/1	2.5	2.5	2.5	2.5
250/1	2.5	2.5	2.5	2.5
300/1	2.5	2.5	2.5	2.5
400/1	2.5	2.5	2.5	2.5
500/1	2.5	2.5	2.5	2.5
600/1	2.5	2.5	2.5	2.5
800/1	2.5	2.5	2.5	2.5
1000/1	2.5	2.5	2.5	5
1200/1	2.5	5	5	5
1400/1	2.5	5	5	5
1500/1	2.5	5	5	5
2000/1	2.5	5	5	5
100/5				2.5
150/5			2.5	2.5
200/5	2.5	2.5	2.5	3
250/5	2.5	2.5	2.5	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	15
1200/5	5	10	10	15
1400/5	5	10	10	15
1500/5	5	10	15	20
2000/5	5	10	15	20

Selection Guide

Model	Primary rated current	Rated load	Aperture (mm)	Description (mm)	Weight (kg)
LZCK-36	100-600A	$\leq 10\text{VA}$	$\Phi 36$	128×120×85.5	1.25
LZCK-55	100-1000A	$\leq 10\text{VA}$	$\Phi 55$	180×138×52	2
LZCK-80	100-2000A	$\leq 20\text{VA}$	$\Phi 80$	185×164×60	2.5
LZCK-120	100-3000A	$\leq 20\text{VA}$	$\Phi 120$	225×204×64	2.8
LMCK185-10	300-5000A	$\leq 25\text{VA}$	$\Phi 185$	350×283×55	4.5

Accessory

