

LZCK-80

RESIN CAST 300/5A~2000/5A OUTDOOR SPLIT CORE CURRENT TRANSFORMER IP67

The model LZCK-80 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 IP67. This type of outdoor 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 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. Meter tester;
2. Energy meter;
3. Power Meter;
4. MV switchgears;
5. Load monitoring;
6. Metering device;
7. Distribution boxes;
8. Power Quality meter;
9. Low voltage metering system;
10. Distribution transformer power monitor system;



Features

1. IP67 level outdoor;
2. Support Dual Ratio;
3. Support install Seals;
4. High magnetic silicon steel core;
5. Holding wire diameter: $\phi 80\text{mm}$;
6. Easily installation with electricity;
7. Measurement range 0-2000A AC;
8. High precision 0.2s, 0.2, 0.5s, 0.5;
9. High quality current transformer outdoor;
10. Cable length 1m, 2.5m, 5m, 7m, 10m etc optional;
11. Secondary windings are vacuum poured by insulated resin;
12. Secondary signal voltage output 333mV, 500mV, 1V, 5V etc optional;
13. 100A/1V, 200A/1V, 300A/1V 1000A/1V, 1500A/1V, 2000A/1V;
14. 100A/5V, 200A/5V, 300A/5V 1000A/5V, 1500A/5V, 2000A/5V;
15. 100A/333mV, 200A/333mV, 300A/333mV 1000A/333mV, 1500A/333mV, 2000A/333mV;
16. 50A/20mA, 100A/50mA, 200A/40mA, 300A/300mA 1000A/250mA, 1000A/500mA, 2000A/500mA;
17. 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;
18. 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;
19. 200/5A, 300/5A, 400/5A, 500/5A, 600/5A, 750/5A, 800/5A, 1000/5A, 1200/5A, 1400/5A, 1500/5A, 1600/5A, 1800/5A, 2000/5A;

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	50-2000A
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)	Φ80
Dimensions (W×D×H) (mm)	185×164×60
Weight (kg)	2.5
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-80(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
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

Ratio	Accuracy class			
I_1/I_2	0.2S	0.2	0.5S	0.5
50/333mV	Y	Y	Y	Y
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

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