

## LMCK185-10

### HIGH ACCURACY IP67 3000/5A CLAMP OUTDOOR SPLIT CORE CT

The model LMCK185-10 series 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 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 LMCK185-10 split core current transformer applies to the outdoor electric power system with frequency 50Hz or 60Hz, its ingress protection is IP67. This type of current transformer employs 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, ultraviolet-proof and explosion-proof, fire-proof, maintenance-free, stable and reliable performance, easy installation, etc.

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

## Features

1. IP67 level outdoor;
2. Support Dual Ratio;
3. High precision 0.5s split core ct;
4. Holding wire diameter:  $\phi 185\text{mm}$ ;
5. Easily installation with electricity;
6. Measurement range 0-5000A AC;
7. Distribution transformer power monitoring;
8. 5A, 1A, 333mV, 1V or 5V or.. output optional;
9. Designed more than 15 years life, maintenance-free;
10. Secondary windings are vacuum poured by insulated resin;
11. IEC60044-1, IEC 61869-2, , NTC 2205, GB1208-2006, ANSI/IEEE C57.13;
12. 300/5A, 500/5A, 1000/5A, 1500/5A, 2000/5A, 3000/5A, 5000/5A etc optional ;



## Application

- |                     |                        |   |
|---------------------|------------------------|---|
| 1. Energy meter;    | 2. Power Meter;        | 3. Power Quality Analyzer;                        |
| 4. Meter tester;    | 5. MV switchgears;     | 6. Low voltage metering system;                   |
| 7. Load monitoring; | 8. Distribution boxes; | 9. Distribution Power transformer monitor system; |

## Parameters

### Technical parameters

Standards	IEC60044-1; IEC 61869-2; GB1208-2006; ANSI/IEEE C57.13; NTC 2205;
Accuracy Class	0.5S, 0.5%, 1%, 3% (IEC61869 standard)
Range of primary rated current	300-5000A
Range of Rated load	≤25VA
Working Voltage	720V (Naked line) / 10-35KV (Insulated cable)
Rated frequency	50/60Hz
Rated secondary current	5A or 1A
Rated short-time thermal current	40kA, 1S
Rated continuous thermal current	120%I <sub>n</sub>
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 a pron.

### Mechanical parameters

Aperture (mm)	Φ185
Dimensions (W×D×H) (mm)	350×283×55
Length of Cable	2.5m(standard), 5m, 10m or customized
Cable information	2*16AWG ,Voltage: 400/720V, outdoor+UV
Weight (kg)	4.5
Color	Black, orange or customized

### Working conditions

Operating temperature	-40°C to +70°C
Storage temperature	-40°C to +70°C
Ingress Protection	IP67 ( 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	LMCK185-10(2.5m cable)			
Purpose	Measuring current transformer			
Ratio	Accuracy class and rated load(VA)			
$I_1/I_2$	0.5S	0.5	1	3
300/1	0.1	0.1	1.5	2.5
400/1	0.1	0.1	1.5	2.5
500/1	1	2.5	2.5	2.5
600/1	1	2.5	2.5	2.5
750/1	1	2.5	2.5	2.5
800/1	1	2.5	2.5	2.5
1000/1	2.5	2.5	5	5
1200/1	2.5	2.5	5	5
1250/1	2.5	2.5	5	5
1500/1	2.5	2.5	5	5
2000/1	5	5	5	5
2500/1	5	5	5	5
3000/1	5	5	5	5
4000/1	5	5	5	5
300/5		2.5	2.5	2.5
400/5		2.5	2.5	2.5
500/5	2.5	2.5	2.5	5
600/5	2.5	2.5	3.75	5
750/5	5	2.5	3.75	5
800/5	5	2.5	3.75	5
1000/5	5	5	5	10
1200/5	5	5	10	10
1250/5	5	5	10	10
1500/5	5	5	10	10
2000/5	5	5	10	20
2500/5	5	10	20	25
3000/5	5	10	20	25
4000/5	5	10	20	25
5000/5	5	10	20	25

## Selection Guide

Model	Primary rated current	Rated load	Aperture (mm)	Description (mm)	Weight (kg)
LZCK-36	100-600A	≤10VA	Φ36	128×120×85.5	1.25
LZCK-55	100-1000A	≤10VA	Φ55	180×138×52	2
LZCK-80	100-2000A	≤10VA	Φ80	172×164×85.5	2.5
LZCK-120	100-3000A	≤20VA	Φ120	210×205×85.5	3.2
LMCK185-10	300-5000A	≤25VA	Φ185	350×283×55	4.5

## Outline drawing

