

FU-100

500/5a Ring Core Ac Clamp On Open Current Transformer

The model FU-100 clamp type ct is a split-core current transformer offers 333mV, 100mV-2V and 10mA-500mA ,1A or 5A at secondary from sensed primary current (0-3000A). This model FU-100 split core ct is 100MM diameter. This is a economic split core current transformer, using ABS and Anti-fire cover, it is very easy for installation.It has Low phase shift for power measurement.length of the output lead can be customized. This current transformer is compact and low cost current transformer with high accuracy. The CTs are ideal for quick and easy installation without disconnecting cables during installation. Multiple installation mechanisms provide stable and durable current measurement.

All of our clamp on current transformers are strictly comply IEC60044-1, IEC 61869-2, NTC 2205, GB1208-2006, GB20840.2-2013, ANSI/IEEE C57.13.

Features

1. Faster installation;
2. Most cost-effective;
3. High accuracy 0.5%;
4. Clamp type ct design;
5. Safe and easy installations;
6. CE, UL / EN 61010 - 1 certified;
7. Holding wire diameter: $\phi 100\text{mm}$;
8. Small-size, compact size, light-weight;
9. Low phase shift for power measurement;
10. Measurement range of 1mA to 3000A AC;
11. Over-Voltage protection circuit is installed;
12. Output model: Lead output(2.5m)-can be customized;
13. Isolated plastic case recognized according to UL94-V0;



Application

1. Load Center;
2. Power Meter;
3. Digital Fault Recorders;
4. Three Phase Balance Control;
5. Power quality analyzer meter;
6. Smart Grid Application Features;
7. Various power monitoring systems;
8. In-Factory Display In-Home Display;
9. Power Measurement Device For PLC;
10. Energy meter current measurement;
11. Sub-Metering Accurate Measurement;
12. Inverters for Solar & Wind Turbine Systems;
13. HEMS (Home Energy Management System);
14. BEMS (Building Energy Management System);
15. Data Loggers to analyze Building & Machinery Performance

Parameters

Technical parameters	
Standards	IEC/EN60044-1 & IEC61010-1 & IEC61869-2&ANSI C57.13
Ratio	60: 1, 120:1 or 1000:1 , customized
Nominal input current （Primary current）	300A/400A/500A/600A/750A/800A/1000A/1200A/1250A/1500A/2000A/2500A/3000A
Overload withstand	1.2 times rated current continuously
Accuracy	0.2%, 0.5 %, 1%
System Voltage	720V(0.72kV)
Output signal	50mA-500mA, 1A, 5A AC optional 333mV AC or 100mV-2V optional
Burden	2.5VA-10VA
Frequency range	40 Hz....2000 Hz
Dielectric strength	3 KV 50Hz/60Hz at 1 minute
Output	Standard 2.5 meter cable
Protection Level	3.0V0-P
Installation Category	CAT IV 600V AC IEC/EN 61010-1
Internal structure	Clamp-on Design
Max. jaw opening	100mm
Material	Silicon steel sheets+Enameled wire+ABS+94V-0
Color	White
Mechanical parameters	
Dimensions (W×D×H) (mm)	170 x 184.5 x 41
Weight (kg)	1
Operating conditions	
Operating temperature	-25 to +55°C
Relative Humidity	0-85% non-condensing
Using Environment	Indoor
Altitude	<3000 meters
Condition	No existence of severely begrimed, erosive and radioactive gas in the air. Permission of long-term operation under rated current.

Technical Data

Type	FU-100		
Purpose	Measuring current transformer		
Ratio	Accuracy class		
I_1/I_2	0.2	0.5	1
500A/333mV		YES	YES
1000A/333mV		YES	YES
2000A/333mV		YES	YES
3000A/333mV		YES	YES
500A/1V	YES	YES	YES
500A/2V	YES	YES	YES
500A/5V	YES	YES	YES
1000A/1V	YES	YES	YES
1000A/2V	YES	YES	YES
1000A/5V	YES	YES	YES
2000A/1V	YES	YES	YES
2000A/2V	YES	YES	YES
2000A/5V	YES	YES	YES
3000A/1V	YES	YES	YES
3000A/2V	YES	YES	YES
3000A/5V	YES	YES	YES
1000A/1A	YES	YES	YES
2000A/1A	YES	YES	YES
3000A/1A	YES	YES	YES
300A/5A		YES	YES
500A/5A		YES	YES
600A/5A		YES	YES
800A/5A		YES	YES
1000A/5A		YES	YES
1500A/5A		YES	YES
2000A/5A		YES	YES
2500A/5A		YES	YES
3000A/5A		YES	YES

Selection Guide

Model	Primary rated current	Rated load	Secondary output	Aperture (mm)	Description (mm)	Weight (kg)
FU-16	5-200A	≤10 Ohm	333mV, 1V, 5V, 100mA	φ16	38 x 55 x 18	0.06
FU-32	100-600A	≤10VA	333mV, 1V, 5V, 1A, 5A	φ32	110 x 130 x 41	0.7
FU-36	100-600A	≤2.5VA	333mV, 1V, 5V, 1A, 5A	φ10, φ16, φ24, φ36	26 x 43 x 27 31 x 50 x 30 43 x 73 x 39 60 x 89 x 43	0.1, 0.12, 0.2, 0.35
FU-80	100-1200A	≤5VA	333mV, 1V, 5V, 1A, 5A	φ30, φ55, φ80	88 x 129 x 28 108 x 155 x 28 138 x 193 x 28	0.4, 0.55, 0.6
FU-100	300-3000A	≤10VA	333mV, 1V, 5V, 1A, 5A	φ100	170 x 184.5 x 41	1
FU120	200-4000A	≤10VA	333mV, 1V, 5V, 1A, 5A	120 x 130, 120 x 30	166 x 110 x 49 166 x 208 x 49	1.2, 1.7
FU160	500-5000A	≤20VA	1A, 5A	160 x 80	144 x 227 x 54	2.8