

FU-100

100MM WINDOW TYPE 3000/5A SPLIT CORE CLAMP ON CURRENT TRANSFORMER

The model FU-100 clamp on 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 window. 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, ANSI/IEEE C57.13, NTC 2205, GB1208-2006, GB/T 20840.1-2010, GB/T 20840.2-2014, GB/T 22071.1-2018.

Applications

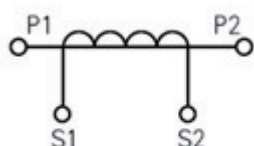
1. Power Meter;
2. Load Center;
3. Distribution boxes
4. Power quality meter;
5. Digital Fault Recorders;
6. Three Phase Balance Control;
7. Smart Grid Application Features;
8. Various power monitoring systems;
9. In-Factory Display In-Home Display;
10. Power Measurement Device For PLC;
11. Energy meter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



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;
14. IEC60044-1, IEC 61869-2, ANSI/IEEE C57.13 etc Standard;

Wiring Diagrams



Single winding

P1, P2 is primary polarity terminal, S1, S2 is secondary polarity terminal.

P2, S2 is homonymous terminals (subtractive polarity).

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, IEC61010-1
Ratio	60:1, 120:1, 600:1 or 1000:1 etc , customized
Accuracy	0.2% , 0.5%, 1%
Range of primary rated current	300A/400A/500A/600A/750A/800A/1000A/1200A/1250A/1500A/2000A/2500A/3000A
Range of Rated Burden	2.5VA-10VA
Rated frequency	50/60Hz
Rated secondary output	50mA-500mA, 1A, 5A AC optional 333mV AC or 100mV-2V optional
Frequency range	40Hz-2KHz
System Voltage	720V(0.72kV)
Rated continuous thermal current	120%I _n continuously
Secondary winding power frequency withstand voltage(Dielectric strength)	3kV, 1min
Safety	CAT IV 600V IEC/EN 61010-1
Output	K1, K2 or S1, S2; Standard 2.5 meter cable
Protection Level	3.0V0-P
Internal structure	Clamp-on Design
Material	Silicon steel sheets+Enameled wire+ABS+ 94V-0

Mechanical parameters	
Dimensions (W×D×H) (mm)	170 x 184.5 x 41
Jaw cable diameter(mm)	100mm
Weight (kg)	1
Color	White
Working conditions	
Operating temperature	-25°C to +55°C
Storage temperature	-40°C to +70°C
Environment	indoors
Altitude	<3000 meters
Conditions	No existence of severely begrimed, erosive and radioactive gas in the air. Permission of long-term operation under rated current.

Specification

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, 0.7
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	333mV,1V, 2V, 5V,1A, 5A	160 x 80, 120 x 80	144 x 227 x 54	2.8, 2.3

Ordering Information

Be sure to the type, current ratio, accuracy class, rated load and use of the products when you plan to make a order. Special specifications could be customized. All kinds of different specifications and parameters current transformers can be made according to your needs.