

FU-36

5A-600A CE UL LOW LOST CLIP-ON SPLIT CORE CURRENT SENSOR

FU-36 clip-on ct is low cost ac split core current sensor, measuring AC current from 5A to 600 Amps passing through the center conductor. This model has four diameter version (10mm, 16mm, 24mm and 36mm), suite for all kinds of customers application. Split core current sensors are designed for fast and easy installation. The split core design permits non-contact current measurements through magnetic field induction without requiring that the primary wire be taken offline and disconnected for CT installation. This method permits a safer, easy and portable current measurement.

All of our clip-on current sensors are strictly comply IEC60044-1, IEC61869-2, ANSI/IEEE C57.13, NTC 2205, GB1208-2006, GB/T 20840.1-2010, GB/T 20840.2-2014, GB/T 22071.1-2018.

Applications

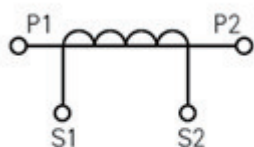
1. Load Center;
2. Distribution boxes;
3. Digital Fault Recorders;
4. Energy meter(kWh meter);
5. Three Phase Balance Control;
6. Power quality analyzer meter;
7. Smart Grid Application Features;
8. Power meter and harmonic meters;
9. Various power monitoring systems;
10. In-Factory Display In-Home Display;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



Features

1. Faster installation;
2. Most cost-effective;
3. High accuracy 0.5%, 1%;
4. CE, UL / EN 61010 - 1 certified;
5. Small-size, compact size, light-weight;
6. Measurement range of 1mA to 600A AC;
7. Using high magnetic silicon steel, good linearity and high sensitivity;
8. Low phase shift for power measurement;
9. Over-Voltage protection circuit is installed;
10. Safe and Easy installation to distribution panels;
11. Output model: Lead output(2m)-can be customized;
12. Isolated plastic case recognized according to UL94-V0;
13. Holding wire diameter: $\phi 10\text{mm}$, $\phi 16\text{mm}$, $\phi 24\text{mm}$, $\phi 36\text{mm}$;

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
Ratio	1000: 1, 2000:1, 2500:1 or 3000:1 , customized
Accuracy	0.2% , 0.5%, 1%
Range of primary rated current	5A/10A/20A/30A/40A/50A/60A/75A/80A/100A/150A/200A/250A/300A/400A/500A/600A
Range of Rated Burden	1VA-5VA
Rated frequency	50/60Hz
Rated secondary output	5mA-200mA, 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)	2.5KV 50Hz/60Hz at 1 minute

Technical parameters - continued	
Safety	CAT IV 600V IEC/EN 61010-1
Output	K1, K2 or S1, S2; Standard 2 meter cable
Protection Level	3.0V0-P
Internal structure	Snap-fit Design
Installation and fixation method	Ribbon
Material	Silicon steel sheets+Enameled wire+ABS+ 94V-0
Mechanical parameters	
Dimensions (W×D×H) (mm)	26 × 43 × 27;31 × 50 × 30; 43 ×73 × 39;60 × 89 × 43
Jaw cable diameter(mm)	10 mm, 16mm, 24mm, 36mm
Weight (g)	100, 120, 200, 350
Color	Black
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-36			
Purpose	Measuring current transformer			
Ratio	Accuracy class			
I_1/I_2	0.2	0.5	1	
5A/333mV	YES	YES	YES	
10A/333mV	YES	YES	YES	
20A/333mV	YES	YES	YES	
50A/333mV	YES	YES	YES	
60A/333mV	YES	YES	YES	
100A/333mV	YES	YES	YES	
150A/333mV	YES	YES	YES	
200A/333mV	YES	YES	YES	
300A/333mV	YES	YES	YES	
400A/333mV	YES	YES	YES	
500A/333mV	YES	YES	YES	
600A/333mV	YES	YES	YES	

Type	FU-36		
Purpose	Measuring current transformer		
Ratio	Accuracy class		
5A/2.5mA	YES	YES	YES
10A/5mA	YES	YES	YES
20A/10mA	YES	YES	YES
50A/25mA	YES	YES	YES
60A/30mA	YES	YES	YES
100A/50mA	YES	YES	YES
150A/75mA	YES	YES	YES
200A/100mA	YES	YES	YES
50A/50mA	YES	YES	YES
60A/60mA	YES	YES	YES
100A/100mA	YES	YES	YES
150A/150mA	YES	YES	YES
200A/200mA	YES	YES	YES
100A/100mV	YES	YES	YES
100A/1V	YES	YES	YES
100A/2V	YES	YES	YES
100A/5V	YES	YES	YES
100A/10V	YES	YES	YES
200A/1V	YES	YES	YES
200A/2V	YES	YES	YES
200A/5V	YES	YES	YES
200A/10V	YES	YES	YES
100A/1A	YES	YES	YES
200A/1A	YES	YES	YES
300A/1A	YES	YES	YES
400A/1A	YES	YES	YES
500A/1A	YES	YES	YES
600A/1A	YES	YES	YES
200A/5A	YES	YES	YES
300A/5A	YES	YES	YES
400A/5A	YES	YES	YES
500A/5A	YES	YES	YES
600A/5A	YES	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.