

FU-16

10A-200A 333MV ECONOMIC MINI SPLIT CORE CT FOR ENERGY METER

The model FU-16 split core ct is a 16mm diameter split-core current transformer offers 333mV, 100mV-2V and 10mA-200mA at secondary from sensed primary current (0-200A). Without using secondary CT inside of meter, users directly connect FU-16 series current sensor to meter for high accuracy metering application. It enables one meter to be adopted for various current rating by only changing primary CT so it makes compact meter design and reduces developing cost. Also, over-voltage protection circuit is included to offer safe, fast and cost effective installation. It has Low phase shift for power measurement. length of the output lead can be customized. This is a economical current transformer.

All of our split core cts 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.

Features

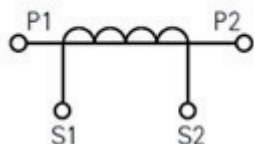
1. Faster installation;
2. Most cost-effective;
3. High accuracy 0.2%,0.5%;
4. Safe and easy installations;
5. CE, UL / EN 61010 - 1 certified;
6. Holding wire diameter: $\phi 16\text{mm}$;
7. Small-size, compact size, light-weight;
8. Measurement range of 1mA to 200A AC;
9. Low phase shift for power measurement;
10. Over-Voltage protection circuit is installed;
11. Output model: Lead output(1m)-can be customized;
12. Secondary output have 333mV, 100mA, 1-5V output;
13. Isolated plastic case recognized according to UL94-V0;



Features

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|-------------------------|---------------------------------------|---|
| 1. Switchgears; | 6. Energy meter(kWh meter); | 10. Power meter and harmonic meters; |
| 2. General Sets; | 7. Power quality monitoring; | 11. Various power monitoring systems; |
| 3. Control panels; | 8. Recorders, loggers, oscilloscopes; | 12. HEMS (Home Energy Management System); |
| 4. Distribution boxes | 9. Distributed measurement systems; | 13. BEMS (Building Energy Management System); |
| 5. Power Quality meter; | | |

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
Accuracy Class	0.2 , 0.5S, 0.5, 1
Range of primary rated current	5-200A
Range of Rated load	4-20Ω
Rated frequency	50/60Hz
Rated secondary output	5mA-200mA 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
Protection Level	3.0V0-P
Material	Silicon steel sheets+Enameled wire+ABS+ 94V-0
Mechanical parameters	
Dimensions (W×D×H) (mm)	38 x 55 x 18
Jaw cable diameter(mm)	16
Weight (g)	60
Color	Black

Working conditions	
Operating temperature	-25°C to +55°C
Storage temperature	-40°C to +70°C
Environment	indoors
Altitude	< 3500 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-16		
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
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

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.