

FU16

Economic 333mv Mini Split Core Current Transformer For Meter

The model FU-16 split core ct is a 16mm diameter mini 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 transformer 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.

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(2m)-can be customized;
12. Secondary output have 333mV, 100mA, 1-5V output
13. Isolated plastic case recognized according to UL94-V0;



Application

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

Parameters

Technical parameters	
Standards	IEC/EN60044-1 & IEC61010-1 & IEC61869-2&ANSI C57.13
Accuracy	0.2%, 0.5 %, 1%
Ratio	1000: 1 or 2000:1 , customized
Nominal input current (Primary current)	5A/10A/20 A/30A/40A/50A/60A/80A/100A/150A/200A
Overload withstand	1.2 times rated current continuously
System Voltage	720V(0.72kV)
Output signal	5mA-200mA AC optional 333mV AC or 100mV-2V optional
Frequency range	40 Hz....500 Hz
Dielectric strength	3KV 50Hz/60Hz at 1 minute
Output	Standard 2.5 meter cable
Protection Level	3.0V0-P
Installation Category	CAT II or CATIII 600VAC
Max. jaw opening	16 mm
Material	Silicon steel sheets+Enameled wire+ABS
Mechanical parameters	
Dimensions (W×D×H) (mm)	38mm x 55mm x 18 mm
Weight (g)	60
Operating conditions	
Operating temperature	-25 to +55°C
Relative Humidity	0-85% non-condensing
Altitude	<3500 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-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
200A/2V	YES	YES	YES

Selection Guide

Model	Primary rated current	Rated load	Secondary output	Aperture (mm)	Description (mm)	Weight (kg)
FU-16	5-200A	$\leq 10 \text{ Ohm}$	333mV, 1V, 5V, 100mA	$\phi 16$	38 x 55 x 18	0.06
FU-32	100-600A	$\leq 10 \text{ VA}$	333mV, 1V, 5V, 1A, 5A	$\phi 32$	110 x 130 x 41	0.7
FU-36	100-600A	$\leq 2.5 \text{ VA}$	333mV, 1V, 5V, 1A, 5A	$\phi 10, \phi 16, \phi 24, \phi 36$	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	$\leq 5 \text{ VA}$	333mV, 1V, 5V, 1A, 5A	$\phi 30, \phi 55, \phi 80$	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	$\leq 10 \text{ VA}$	333mV, 1V, 5V, 1A, 5A	$\phi 100$	170 x 184.5 x 41	1
FU120	200-4000A	$\leq 10 \text{ VA}$	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	$\leq 20 \text{ VA}$	1A, 5A	160 x 80	144 x 227 x 54	2.8