

FU-40II

200A 300A 400A 500A RING TYPE LOW COST LV CURRENT TRANSFORMER 5A

FU-40II economic LV current transformer is low cost ac ring type current transformer, measuring AC current from 100A to 800 Amps passing through the center conductor. This model has three version (class 0.2, 0.5, 1), suite for all kinds of electrical customers application. LV current transformers are intended for supplying measuring instruments and protection circuits of electrical power devices with a maximum operating voltage of 0.72 kV and frequency of 50 Hz or 60 Hz after prior arrangement with the manufacturer of GFUVE TRANSFORMER. LV current transformers are supplied with accessories which help to install and secondary terminal cover with possibility of sealing.

All of our GFUVE low voltage current transformers are strictly comply IEC60044-1, IEC 61869-2, ANSI/IEEE C57.13, GB1208-2006, GB/T 20840.1-2010, GB/T 20840.2-2014, GB/T 22071.1-2018, IEC/EN61010-2-032, IEC/EN 61010-2-031, IEC 60185, JJG1021.

Features

1. Accuracy class 0.2, 0.5, 1;
2. Burden from 2.5VA to 10VA;
3. Holding wire diameter: $\Phi 31\text{mm}$;
4. Low phase shift for power measurement;
5. Small-size, compact size, light-weight;
6. Most cost-effective;
7. Rated voltage $\leq 0.72\text{kV}$;
8. Design using for more than 15years;
9. Measurement range of 100A to 800A AC;
10. Safe and Easy installation to distribution panels;
11. CE, UL / EN 61010 - 1 certified;
12. Using high magnetic silicon steel, good linearity and high sensitivity;
13. Isolated plastic case recognized according to UL94-V0;
14. Current, electrical energy measurement in 50Hz/60Hz A.C. circuits;
15. IEC60044-1, IEC 61869-2, ANSI/IEEE C57.13, IEC 60185 Standard;



Applications

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

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 ; IEC60185 ; JJG1021 ;
Model	FU-40II
Type	Indoor type
Rated system Voltage, kV	0.38, 0.22
Highest system voltage, kV	<0.72
Fault Current of system, KA	5 KA /3Sec
Accuracy Class	0.2, 0.5,1 (IEC60044-1/IEC61869-2 standard)
Rated primary current	100A, 200A, 300A, 400A, 500A, 600A, 800A; (100-800A)
Rated load	2.5VA-10VA
Rated frequency	50Hz or 60Hz
Rated secondary current	5A or 1A
Ratio	200/5A, 300/5A, 400/5A, 500/5A,600/5A, 800/5A, 200/1A,300/1A, 400/1A, 500/1A, 600/1A or customized
Rated short-time thermal current	25kA, 1S
Rated continuous thermal current	120%I _{1n}
Dielectric strength	3KV 50Hz/60Hz at 1 minute
Instrument security factor	FS ≤10
Output mode	Terminal output
Material of insulation	Dry type, ABS

Mechanical parameters	
Dimensions (W×D×H) (mm)	75 x 82 x 40
Max. jaw Bus bar(mm)	40 x 10
Max. jaw cable diameter(mm)	31
Weight (kg)	0.35
Operating conditions	
Operating temperature	-20°C to +55°C
Daily average temp	<+40°C
Storage temperature	-40°C to +70°C
Relative Humidity	0-85% non-condensing
Environment	indoors
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-40II			
Purpose	Measuring current transformer			Straight through turns
Rated primary current (AMP)	Accuracy class and rated load(VA)			
	0.2	0.5	1	
100	2.5*	2.5	5	1
150	2.5*	2.5	5	1
200	2.5*	5	7.5	1
250	2.5*	5	7.5	1
300	2.5*	5	7.5	1
400	2.5*	5	7.5	1
500	5*	10	10	1
600	5*	10	10	1
750	5*	10	10	1
800	5*	10	10	1

* is special order requirement

Selection Guide

Model	Primary rated current	Rated load	Aperture (mm)	Description (mm)	Weight (g)
FU-30II	15-300A	≤10VA	φ22 or 30 x 10	60 x 67 x 37	280
FU-40II	100-800A	≤10VA	φ31 or 40 x 10	75 x 82 x 40	350
FU-50II	200-800A	≤10VA	φ45 or 60 x 20	101 x 110 x 40	500
FU-60II	400-1500A	≤20VA	φ32 or 60 x30	102 x 110 x 48	800
FU-80II	500-2000A	≤20VA	φ32 or 80 x30	121 x 118 x 46	1000
FU-100II	500-4000A	≤20VA	φ50 or 100 x50	166 x 152 x 48	1500

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.