

FU-CT-Z

0.1% 20Ω MINIATURE MULTIPLE PHASE CURRENT TRANSFORMER

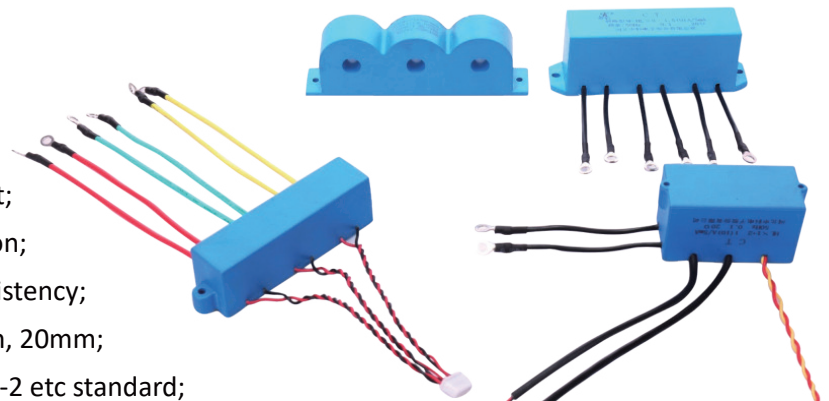
FU-CT-Z series multiple phase current transformers are high precision small current transformers, they are in delicate aesthetic appearance, flexible structure, small volume and light weight, the insulating ability is strong, earthquake prevention which are suitable for three-phase electric energy meters with high precision and small phase displacement.

This specification suitable for 50/60Hz multifunctional electronic electric energy meter, anti-stealing electric meter, digital meter, also be used for transducer electric variables, remote control data acquisition system, relay protection, digital device and meters.

All of our miniature 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.

Features

1. Multiple phase design;
2. Harmonic measurement;
3. High content permalloy core;
4. Working Frequency: 50Hz~400Hz;
5. Operating Temperature: -40℃~95℃;
6. Multiple appearances can be choosed;
7. Measurement range of 1mA to 100A AC;
8. Low phase shift for power measurement;
9. High precision 0.1% for current measurement;
10. Improved ergonomic design & easy operation;
11. High accuracy, wide linear range, good consistency;
12. Holding wire diameter: $\phi 5\text{mm}$, 8mm, 13mm, 20mm;
13. IEC/EN61010-2-032, IEC 60044-1, IEC 61869-2 etc standard;
14. Wide linear output current, high precision and good consistency;
15. Comply to IEC 60044-1 0.05 class, Class 0.1, Class 0.2 standard requirements;
16. DC and even harmonics: 100A/ $\sqrt{2}$, 1inductive, error should be less than $\pm 3\%$ @PF=1.0;
17. Suitable for three-phase electric energy meters with high precision and small phase displacement;
18. Encapsulated with epoxy resin, Power-frequency Withstand Voltages: 4000V 50Hz/1min, Insulation Resistance: $\geq 1000\text{M}\Omega/500\text{Vdc}$;



Applications

1. Digital meter;
2. Relay protection;
3. Metering device.
4. Digital devices and meters;
5. Anti-stealing electric meter;
6. Transducer electric variables;
7. Three-phase electric energy meters;
8. Remote control data acquisition system;

Parameters

Current error (ratio) ± %				Phase error (angle) ± '			
Rated current percent value				Rated current percent value			
5%	20%	100%	I _{max}	5%	20%	100%	I _{max}
-0.1~+0.1	-0.1~+0.1	-0.1~+0.1	-0.1~+0.1	-15~+15	-13~+13	-10~+10	-8~+8

Note: All the above data need to be measured after demagnetization

Selection Guide

Model	Rated Primary Current	Current Ratio	Rated Burden	Accuracy Class
FU-CT-Z001	5A~60A	2500 : 1	20Ω	0.1
FU-CT-Z002	5A~80A	2500 : 1	20Ω	0.1
FU-CT-Z003	5A~100A	2500 : 1	25Ω	0.1
FU-CT-Z004	1A~6A	1800 : 1	20Ω	0.05
FU-CT-Z005	1A~9A	1500 : 1	20Ω	0.1
FU-CT-Z006	5A~100A	5000 : 1	20Ω	0.1
FU-CT-Z007	5A~100A	5000 : 1	20Ω	0.1
FU-CT-Z008	5A~100A	5000 : 1	20Ω	0.1
FU-CT-Z009	1A~10A	1500 : 1	20Ω	0.1
FU-CT-Z010	1A~10A	1600 : 1	20Ω	0.1
FU-CT-Z011	1A~10A	1500 : 1	20Ω	0.1

Notes: Only few typical products of this series are shown in the following page. GFUVE is capable of making other customized design and manufacturing per user request.