

7223CT-2S SERIES

PRECISION AC CURRENT TRANSFORMER SERIES

Most Accurate High Current and High Voltage AC Measurement Transformers Available Today!



FEATURES

- High Precision AC Current Measurements!
- Fixed Permanent Accuracy!
- Measurement Accuracy <5 ppm at Power Frequencies for Both Ratio and Phase Angle!
- Stability Measurement < 5 ppm!
- High Voltage Isolated Measurement Capability When Used with a Suitable Insulating Bushing!
- High Accuracy with Burdens up to 1 Ω!
- 7223CT-2S Provides 1000:1 Transformation Ratio!
- 7223CT-2S/HV Provides 2000:1 Transformation Ratio!

GUILDLINE INSTRUMENTS NEW 7223CT-2S Series of Precision AC Current Transformers provides very accurate AC current measurements at high current and for high voltages.

The 7223CT-2S 2000 A model on the left is designed with a 76.2 mm (i.e. 3 inch) diameter open window to allow the insertion of a high voltage insulating bushing as well as to pass a single cable, set of cables, or buss bar that carry the AC current to be measured.

THE 7223CT-2S IS PART OF THE 7223CT SERIES WHICH ARE COMMERCIALLY AVAILABLE HIGH PRECISION, LOW AND HIGH VOLTAGE, AC CURRENT INSTRUMENTS CAPABLE OF MEASUREMENT ACCURACY <5 PART-PER-MILLION (PPM) — ACCURACIES NO OTHER MANUFACTURER PROVIDES!

The 7223CT-2S AC Current Transformer produces an output current that varies directly with the input current with a ratio of 1000:1. The 7223CT-2S-HV High Voltage model has a ratio of 2000:1.

Both the 7223CT-2S and 7223CT-2S/HV make measurements of current up to a maximum of 2000 A. Other ratios are available with reduced accuracy on special order. The full scale output is provided through five way binding post connectors on the front panel.

All 7223CT-2S Precision AC Current Transformers are packaged in a rugged metal enclosure.

7223CT-2S Precision AC Current Transformer Series

The 7223CT-2S-HV model, shown below, is larger with a 152 mm, (6 in.) diameter open window to allow the insertion of

larger high voltage insulating bushing as well as to pass a single cable, set of cables, or buss bar that carry the AC current to be measured.

The larger open window size makes it easier to use high voltage bushings for the measurement. The winding configuration for the 7223CT-2S-HV model allows for 2000:1 ratio with up to 2000 A on the primary side of the CT.

THEORY OF OPERATION

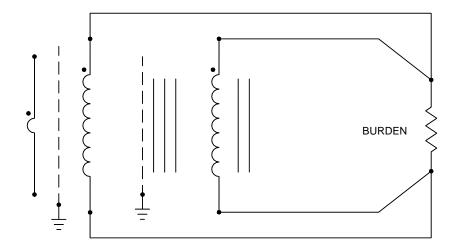
The 7223CT-2S AC Current Transformer produces an output current that varies directly with the input current with a ratio of 1000:1. By the connection of a reference shunt burden on the output terminals the primary current can also be calculated from the measured voltage on the reference shunt with consideration of the 1000:1 ratio. The 7223CT-2S is also suitable for extending the current range of power meters and analyzers.



HV Model required

for proper

No adjustments of the 7223CT-2S AC Current Transformer are operation.



Typical Transformer Connections

7223CT-2S Precision AC Current Transformer Series

7223CT-2S AC Current Transformer Specifications (3 Year)				
Uncertainty / Accuracy 50/60 Hz (Burden 0.5 Ω)	In-phase	< ± 5 ppm		
	Quadrature	< ± 5 ppm		
Linearity	< ± 1 ppm full scale			
Temperature Coefficient	± 0.01 ppm/°C			
Test Current Range	7223CT-2S	± 2000 A		
	7223CT-2S-HV	± 2000 A		
Test Volt Range	Up to 100,000 Vac with Insulating Bushing			
Transformation Ratio	7223CT-2S	1000 : 1		
	7223CT-2S-HV	2000 : 1		
Secondary and Compensation Winding Breakdown Voltage	300 VAC			

GENERAL SPECIFICATIONS					
Tomporaturo	Operating	15 °C to 30 °C	59 °F to 86 °F		
Temperature	Storage	-20 °C to 60 °C	-4 °F to 140 °F		
I I	Operating	20 % to 70 % RH			
Humidity	Storage	15 % to 80 % RH			
Weight	30 kg	66 lbs			
Dimensions (H x D x W)	350 X 107 X 315 mm	13.8 x 4.2 x 12.4 in			
Weight – HV Model	136 kg	300 lbs			
Dimensions – HV Model (H x D x W) 592 x 180 x 559 mm 23.3 x 7.1 x 22.0 in		x 22.0 in			

Ordering Information		
7223CT-2S	2000 Ampere AC Current Transformer (1000:1)	
7223CT-2S/HV	2000 Ampere AC Current Transformer (2000:1)	
/cc	Certificate of Conformance (Included)	
/OM	Operators Manual (Included)	

GUILDLINE IS DISTRIBUTED BY:



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