

Clamp-on Current Transformers

The YUANXING CTC series of clamp-on style current transformers are designed for fast and easy installation. The clamp-on core design permits non-contact current measurements through magnetic field induction without requiring that the primary wire be taken offline and disconnected for CT installation. This method permits a safer, easier and portable current measurement.

Features:

- Clamp-on core design; safer, easier installation, portable
- Both Silicon Steel & Nickel Alloy cores available

Applications:

Silicon Steel cores provide moderate accuracy and lower cost for appropriate current measurement applications.

Nickel Alloy cores are suitable for applications that require the highest accuracy with minimal phase angle error. Applications would include electric power quality monitoring devices.

Specifications:

- Frequency: 50 to 400Hz
- Secondary Output: mA depending upon ratio selected
 - 1:1000
 - 1:2000
 - 1:2500
- Dielectric withstand voltage: 2500 Volts for 1 minute.
- Dielectric resistance: 100 MOhm @ 500 Vdc



CTC0080N



CTC0130N



CTC0200N



CTC0600

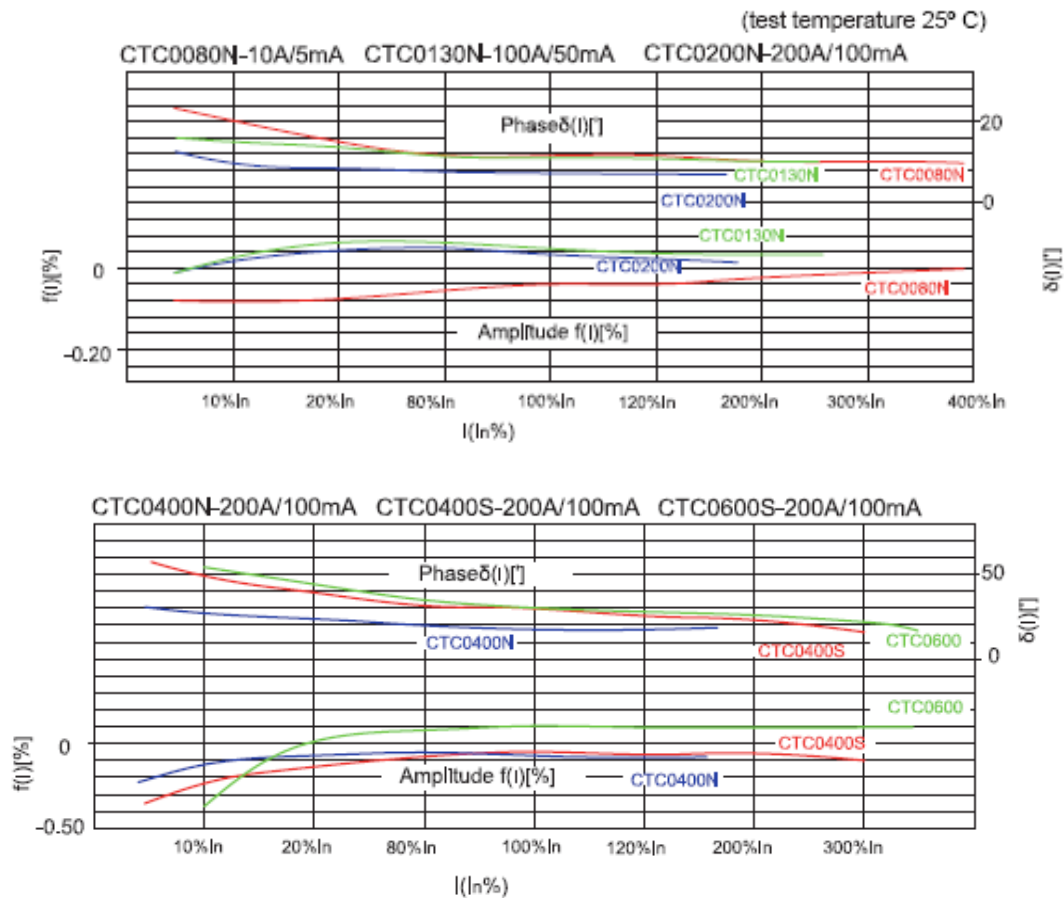
- Operating Temperature: -25°C to +70°C
- Construction:
 - Core: Silicon steel CRGO or Nickel alloy.
 - Case material: Polypropylene resin
- Leads:
 - 1.8m (6 FT)
- RoHS compliant.



Performance:

- Accuracy Class (IEC 60044-1):
 - Nickel Alloy core: .02
 - Silicon Steel core : 0.5, 1.0
- Accuracy: < 0.5%
- Phase Angle: < 60 minutes @ 100% of rated input.
- Linearity: $\pm 1\%$ from 5% to 130% of rated primary current

Typical Performance:



Configuration Options:

Part Number	Rated (Amp)	ID (mm)	Accuracy Class	Linearity Range	Burden impedance
CTC0080N-xxx A/yyy mA	1 to 50A	Φ8	0.1, 0.2	5%-480% of rated current	≤ 50Ω
CTC0130N-xxx A/yyy mA	5 to 200A	Φ13	0.1, 0.2	5%-120% of rated current	≤ 5Ω
CTC0200N-xxx A/yyy mA	5 to 200A	Φ20	0.1, 0.2	5%-120% of rated current	≤ 5Ω
CTC0600S-xxx A/yyy mA	20 to 600A	60×60	0.5, 1.0	5%-120% of rated current	≤ 2Ω

NOTES: "Accuracy Class" as defined in International Standard IEC 60044-1 "Instrument Transformers Part 1: Current Transformers"

Outline Drawing:

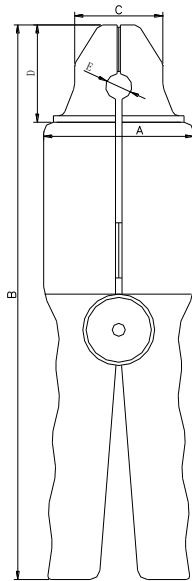


Figure 1

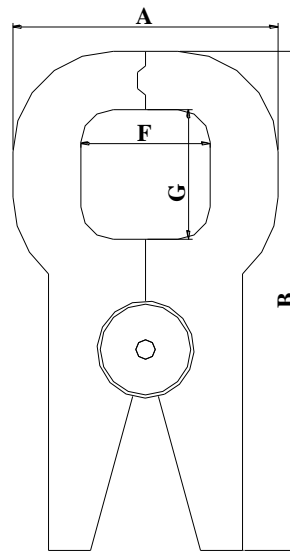


Figure 2

Outline Dimension:

Part Number	Dimension (mm)							
	A	B	C	D	E	F	G	
CTC0080N	44 (1.7323)	134 (5.2757)	25 (0.9843)	20 (0.7874)	8 (0.3150)	-	-	Fig 1
CTC0130N	52 (2.047)	174 (6.8504)	35 (1.3780)	34 (1.3386)	13 (0.5118)	-	-	Fig 1
CTC0200N	52 (2.047)	180.2 (7.0941)	42 (1.6535)	40.2 (1.5823)	20 (0.7874)	-	-	Fig 1
CTC0400	82 (3.2284)	154 (6.0631)	-	-	-	40 (1.5748)	40 (1.5748)	Fig 2
CTC0600	96 (3.7796)	183 (7.2049)	-	-	-	60 (2.3622)	60 (2.3622)	Fig 2