



The CTML-0350 family of split-core current transformers provide low-cost, compact, UL Listed CTs with a 0.33333 Vac (333.33 millivolt AC) output.

Features

- Rated current: 5, 20, 50, and 70 amps
- Monitoring-grade: 1.0% accuracy
- Compact
- Low-cost
- Opening: 0.35 x 0.35 inches (9.0 x 9.0 mm)
- UL Listed (UL 2808, XOBA) for field installation

Links

- <https://ctsys.com/product/ctml-split-core-ct/>
- <https://ctsys.com/cat/current-transformer/>

Table 1: Models

Model	Rated Amps	Output	Accuracy	Internal Burden (Ohms)
CTML-0350-005	5 A	0.33333 Vac	2.0%	200.0
CTML-0350-020	20 A	0.33333 Vac	1.0%	50.0
CTML-0350-050	50 A	0.33333 Vac	1.0%	20.0
CTML-0350-070	70 A	0.33333 Vac	1.0%	14.3

Note: the burden resistor is built into the CTML-0350 CTs.

1 Specifications

- **Line Frequency:** 50 to 60 Hz
- **Maximum Continuous Primary Current:** 100 amps
- **Maximum Voltage:** 600 Vac
- **Overvoltage and Measurement Category:** CAT III: 600 Vac
- **Output Lead Wires:**
 - **Standard length:** 8 ft (2.4 m)
 - **Gauge:** #18 AWG (0.82 mm²)
 - **Type:** MTW, UL 1015
 - **Voltage:** 600 Vac
- **Output:** Voltage output, integral burden resistor
 - **Output Voltage at Rated Amps:** 0.33333 Vac (one-third volt)
 - **Output Protection:** includes internal burden resistor

1.1 Accuracy

- **Output Accuracy (% of reading):**
 - **Accuracy:**
 - **Most models:** ±1.0% from 10% to 120% of rated current
 - **CTML-0350-005 only:** ±2.0% from 10% to 120% of rated current
 - **Phase angle:**
 - **60 Hz:** 0.0 to 2.0 degrees leading from 5% to 120% of rated current
 - **50 Hz:** 0.0 to 3.0 degrees leading from 5% to 120% of rated current
 - **50 Hz CTML-0350-005 only:** 0.0 to 4.0 degrees leading from 5% to 120% of rated current

1.2 Regulatory

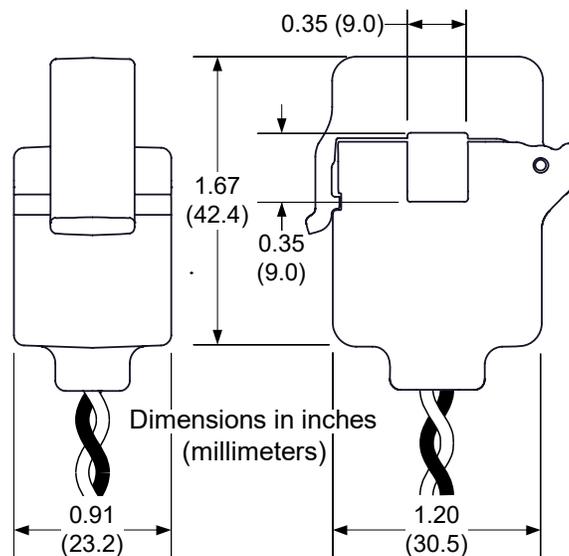
- CE
- UL: UL listed, XOBA, UL 2808, CAN/CSA-C22.2 No. 61010-1, E363660
- RoHS Compliant

1.3 Environmental

- **Operating Temperature:** -20°C to $+55^{\circ}\text{C}$ (-4°F to $+131^{\circ}\text{F}$)
- **Operating Humidity:** Non-condensing, 0 to 95% relative humidity (RH)
- **Operating Altitude:** Up to 2000 m (6561 feet)
- **Pollution Degree:** 2 (controlled environment)
- **Indoor Use:** Suitable for indoor use
- **Outdoor Use:** Suitable for outdoor use when mounted in a NEMA 3R or 4 (IP 66) rated enclosure, provided the ambient temperature will not exceed 55°C (131°F)

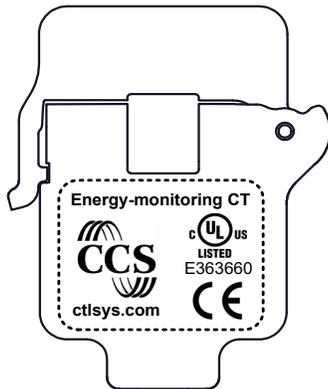
1.4 Mechanical

- **Width (excluding hinge and latch):** 1.20 inches (30.5 mm)
- **Height:** 1.67 inches (42.4 mm)
- **Thickness:** 0.91 inches (23.2 mm)
- **Opening:** 0.35 x 0.35 inches (9.0 x 9.0 mm)
- **Weight (with leads):** 4.5 oz (127 g)
- **Core Material:** high permeability ferrite

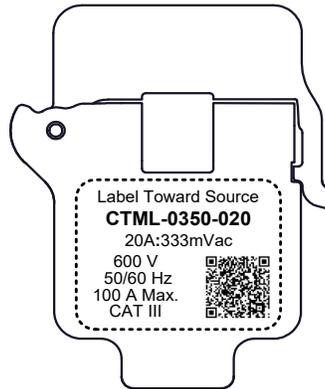


1.5 Labels

Front Label



Rear Label

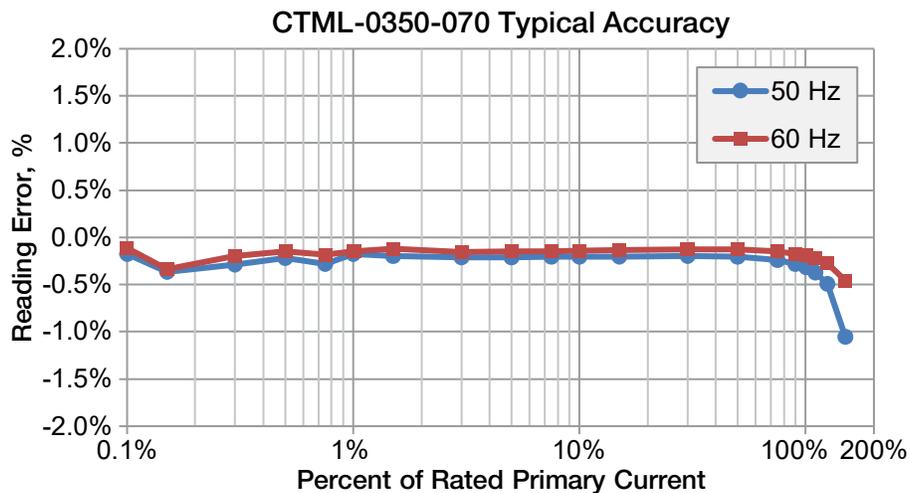


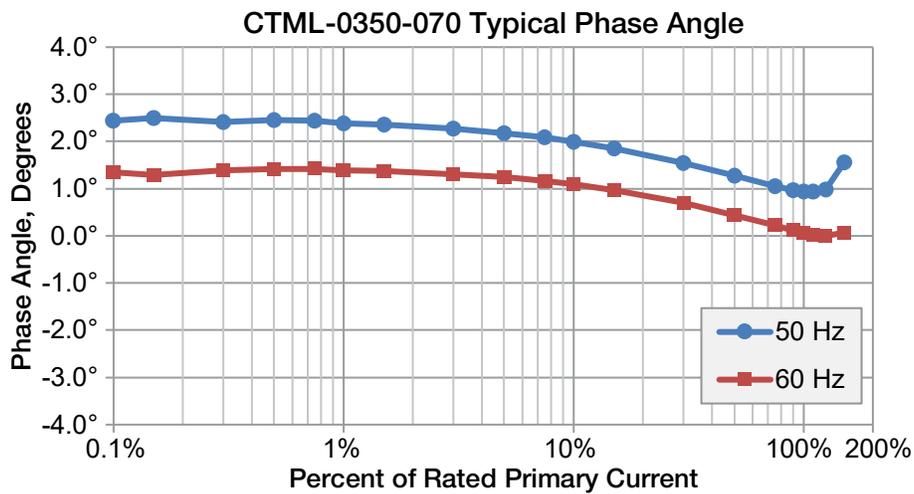
- **QR code format:** <Model> ; <SerialNum>
- **Orientation:** Face the rear "Label towards source" toward the source of energy

2 Typical Accuracy

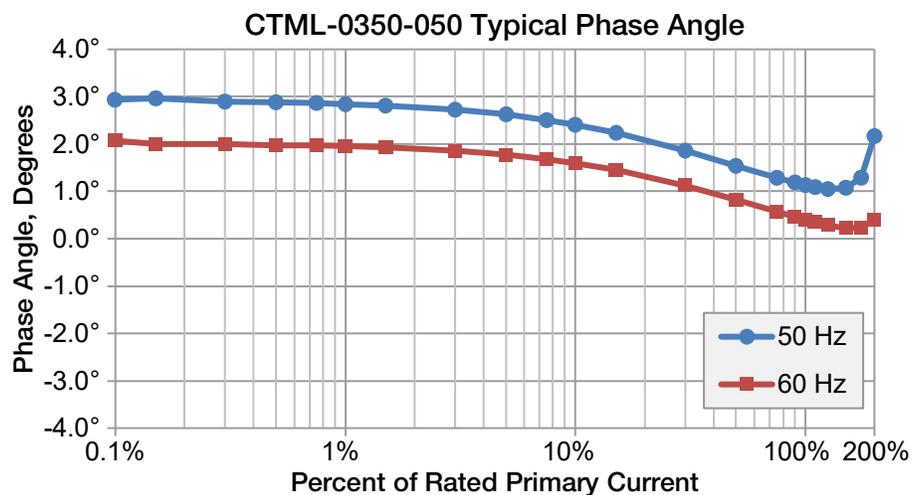
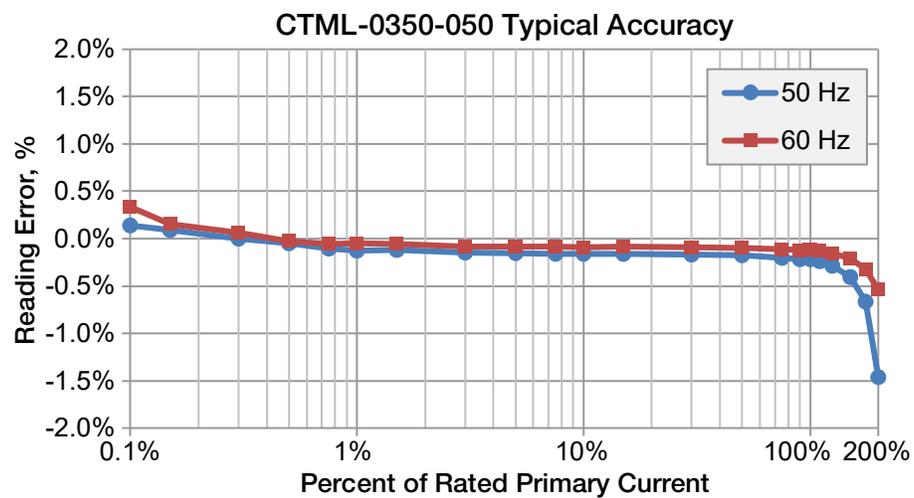
In the following graphs, a positive phase angle error indicates that the output of the CT leads the primary current.

2.1 CTML-0350-070

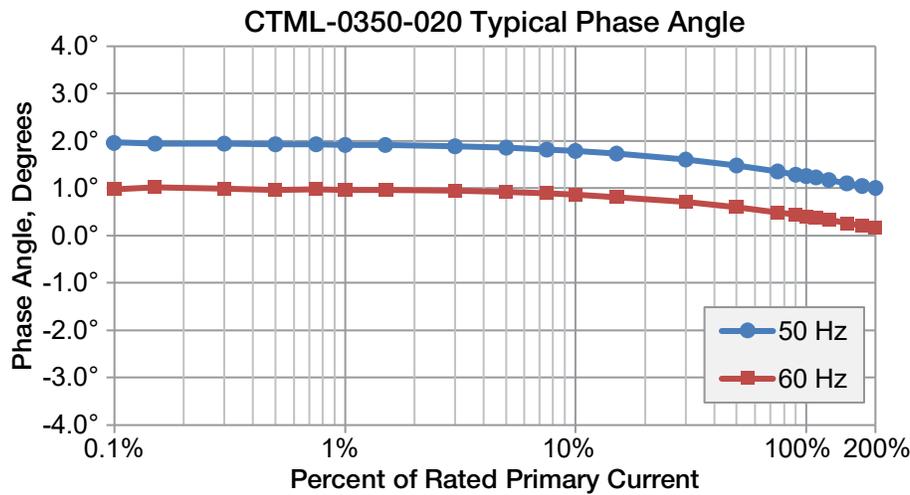
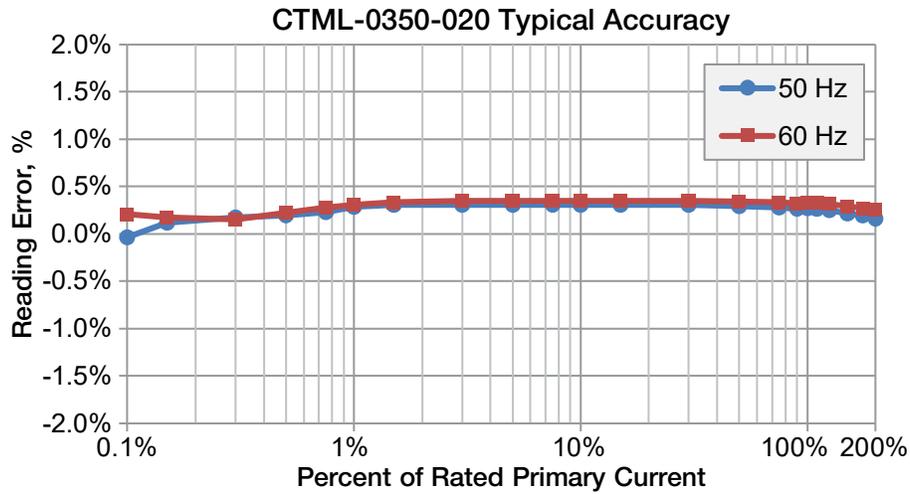




2.2 CTML-0350-050



2.3 CTML-0350-020



2.4 CTML-0350-005

