



AC Current Transducer AT-CT353

500A AC

GENERAL DESCRIPTION

The AT-CT353 probe is built for ruggedness, versatility and ease of use. It is designed with a unique hook-shaped jaw that enables the user to "pry" into or "hook" onto cables (will accept 2 x 500kcmil) or even smaller bus bars.

ELECTRICAL SPECIFICATIONS

Operating Range: 2 to 500A
Measurement Range: 5 to 500A
Transformation Ratio: DC Voltage output
Output Signal: 10mV DC/A AC (5V DC @ 500 AAC)

Range	Accuracy	Phase Shift
5 to 25A	5% of Reading	N/A
25 to 100A	2% of Reading	N/A
100 to 250A	1% of Reading	N/A
250 to 500A	1% of Reading	N/A

Overload: 700 A for 10 min ON, 30 min OFF
Frequency Range: 48 to 1000Hz (error: add 2% to the ref.)
Working Voltage: 600Vrms
Common Mode Voltage: 600Vrms

MECHANICAL SPECIFICATIONS

Dimensions: 2.6 x 7.68 x 1.34" (66 x 195 x 34mm)
Weight: 420 g (14.82 oz)
Jaw Opening: 1.3" (33mm)
Maximum Conductor Size: 1.18" (30mm), Max Bus Bar size: 2.48 x 0.20" (63 x 5mm)
Polycarbonate Material: Handles: 10% fiberglass charged polycarbonate UL94 VO
Output: 5 feet double insulated cable with non-insulated ferrules
 Red ferrule is positive
Operating Temperature: -5° to 122°F (-15° to 50°C)
Storage Temperature: -40° to 185°F (-40° to 85°C)

SAFETY SPECIFICATIONS

-  **Electrical:**
 EN 61010-2-32
 600V CATIII, Pollution: 2; 300V CAT IV, Pollution: 2
- Electromagnetic Compatibility:**
 EN 50081-1 Class B; EN 50082-2 Electrostatic discharge IEC 1000-4-2;
 Radiated field IEC 1000-4-3; Fast transients IEC 1000-4-4;
 Magnetic field at 50/60Hz IEC 1000-4-8
-  Double insulated

Note: Reference conditions:
 23°C ± 5°K, 20 to 75% RH, external magnetic field <40A/m, no DC component,
 no external current carrying conductor, test sample centered, 10Ω load.

