

Ziegler

Redefine Innovative Metering

Technical Datasheet

ZCT 105A | 101A | 3A

CLIP ON CT

ZCT 105A | 101A | 3A

CLIP-ON CT

Ziegler Clip-On CTs (frequency 40Hz...1kHz) measures current without interrupting the conducting line used directly with Ziegler multimeters. Complies with CAT III 600V as per IEC 61010 and accuracy class of 1. They are used for electrically isolated measurement of alternating current within a broad range, without interrupting the current-conducting cable and bus bars.

Product Features

- Nominal primary current from 1-1000A AC in ZCT 101A, ZCT 105A and from 4-300 A AC in ZCT 3A
- Accuracy class 1
- Jaw opening / conductor diameter 43mm & 35 mm
- Compact and handy design with permanently connected safety cables of 1.5 m length
- Transformer ratio 1000:1 in ZCT 101A, ZCT 3A and 200:1 in ZCT 105
- CAT III 600V protection



Measurement

The opening contact of both the core which become visible when trigger is pressed, must be always kept clean. Even small outside particles can deviate measuring accuracy. The measuring secondary long cables with contact- protected connection plugs, which electrically isolates the measurement of AC current without interruption



Periodic Check-up Safety Features & Precautions

The clip on CT does not require any specific maintenance. While cleaning, the probes must not be immersed into any liquid. No special maintenance is required for housing.

The surface between the opening jaws should be cleaned with dry cloth before operating. Avoid use of cleansers, abrasives or solvents. - Application around & removal from HAZARDOUS LIVE conductor is permitted

Safety Features & Precautions

The Clip on current transformers are constructed with safety rules of IEC 61010-1. When in operation the safety of user and unit is assured. Also when the secondary circuit is interrupted, the Clamp has a Protection circuit which prevents high voltage to be generated. Before operating read completely the instruction manual. These instructions must be followed by users in all respects. In case of incorrect use or careless handling, the safety of both user and clamp is not assured.

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CLIP-ON CT

Technical Specifications

Clip on Current Transformer			
Type	ZCT 101 1000A / 1A	ZCT 3A 300A / 0.3A	ZCT 105 1000A /5A
Description/ Application	The current transformers are used for electrically isolated measurement of alternating current within broad range. It is possible to measure AC current without interrupting the current conducting cable and bus bars via hard wired leads with contact protected plugs		
Nominal Primary Current	1-1000 A AC	4-300 A AC	1-1000 A AC
Output signal	1mA AC / A AC	1 mA AC / A AC	5 mA AC / A AC
Transmission ratio Input: Output	1000:1	1000:1	200:1
Accuracy / max.error	Class 1 (2.5 VA) (for current range from 1A to 1000A, 50Hz)	Class 1 (1.25 VA) (for current range from 4A to 300A, 50Hz)	Class 1 (2.5 VA) (for current range from 1A to 1000A, 50Hz)
Max. operating Voltage	CAT III 600 V as per IEC-61010	CAT III 600 V as per IEC-61010	CAT III 600 V as per IEC-61010
Frequency range	40Hz....1kHz	40Hz... 1kHz	40Hz ... 1kHz
Jaw opening / Conductor Diameter	43mm / Diameter 43mm	35mm / Diameter 35mm	43mm / Diameter 43mm
Dimensions (W X H X D)	(92 X 39 X 220) mm	(84 X 39 X 202)mm	(92 X 39 X 220) mm
Weight	Approx 650 gms	Approx 500 gms	Approx 650 gms
Cable length	1.5 meter	1.5 meter	1.5 meter

Note: ZCTs can be used with Ziegler ZDM 123, 216 & ZDM 2x60 series Digital Multimeter for higher current measurement, however for selection of model of ZCT please confirm from respective Sales representative.

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