# ANSI CURRENT TRANSFORMERS

## Installation Guide

**Low Voltage-Current Transformer -**

### Indication

Before initial operation we ask you to pay full attention to these assembling instructions in order to guarantee the reliability and to ensure the performance of the device.

### Functional description

Current transformers of the Ansi model range are inductive single conductor-current transformers operating according to the transformer principle. Due to the applicated measuring principle, current transformers of this type may only be installed in alternating current (AC) networks.

### Safety instructions

In order to avoid personal and material damage the following assembling steps must by performed only by authorised, qualified and trained personnel.

If the secondary circuit is operated without a burden/load (open) high voltages may appear. These voltage values are dangerous for persons as well as for the functional reliability of the current transformer.
**It is forbidden to operate the current transformer without a secondary**

### General Technical Parameters

(Refer datasheet for more details)

| | |
|---|---|
| Primary current | 25A to 6000A |
| Secondary current | 5A |
| Accuracy class | 0.3, 0.6, 1.2, 2.4,4.8 (ANSI)<br>1, 2, 3, 5 (Non ANSI) |
| Rated Burden (VA) | B0.1, B0.2, B0.5, B0.9, B1.8 (ANSI)<br>1 to 100 (Non ANSI) |
| Continuous thermal rating factor | 0.6, 0.8, 1, 1.2, 1.33, 1.5, 2 |
| Rated frequency | 60Hz |
| Maximum system voltage | 600V |
| Basic insulation level | 10kV |
| Applied standards | IEEE C57.13 |
| Ambient temperature | -30°C to +55°C |
| Storage temperature | -50°C…+80°C |
| Secondary lead Connection | 16 AWG(stranded) wire. |
| Torque | 8-32 UNC hex nut : 13 lb·in [1.5Nm] |
| Case Material | 10% glass filled polycarbonate, flame retardant grades classified UL94V-0 |
| Altitude | up to 2000m |

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**Note :** CSA is only applicable to Model 2,Model 5,Model 6, Model 7, Model 8.

## Assembly

1. Ensure a safe work environment during assembly, maintenance and inspection operations. If necessary interrupt the current supply of the primary conductor and take precautions against unintentional switching.

(i) For Window type CT : Bar or cable primary insert through primary cable or bus bar & fix it using mounting screw

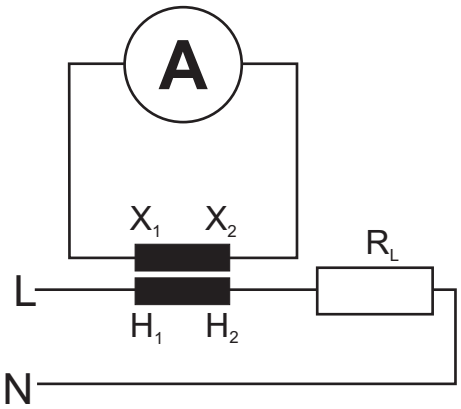
H1-H2 : Direction of input power supply
X1-X2 : Direction of output power

2. Connect the secondary wires of the current transformer to the measuring device (ampere meter, energy meter). Pay attention to the installation guide of the measuring device.

3. If necessary, start the current supply again.

4. Check whether the current transformer is assembled correctly and the secondary leads are connected properly.

## Wiring diagram




## Environmental instruction

When the product has reached it´s “end of life”, it must be recycled. Pass it to an electrical waste disposal. Do not dispose as unsorted municipal waste!

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This product was developed and manufactured in accordance with the applicable regulations (IEEE C57.13) and meets the requirements of the low voltage guideline 2006/95/EG

## Considerations

1) These devices have not been tested for radio influence voltage (RIV), Accuracy and mechanical tests only temperature and dielectric voltage- withstand tests have been conducted.

2) These devices employ class 105(A) Insulation system

3) These devices were tested at room ambient for the heating test then make corrections to 30 ºC ambient. Based on test results, they may be classified as 65ºC rise type at 30ºC ambient.

4) The heating tests were conducted with the secondary winding short-circuited.

5) These transformers were tested at room ambient for the heating test and corrected to the indicated surrounding air temperature rating.

Subject to change without notice!

TYCO ELECTRONICS UK LTD,
FREEBOURNES ROAD, WITHAM,
ESSEX, CM8 3AH, UK