

## 1 Phase & 3 Phase Transformer Trainer

**ZT/TTS-2206**



**Item : 1 Phase & 3 Phase Transformer Trainer(Set)**

### DESCRIPTION:

❖ Single Phase Transformer Lab is an elite training system for the Electrical laboratories. The product helps you to get fully acquainted with the basic concepts and functioning of a Single Phase Transformer. The product is represented in such an easy way that each test can be studied differently in proper sequence. The Lab practically expertise you in exercises like Polarity, Turns Ratio, Transformation Ratio, Iron Loss, Copper Loss, Efficiency etc. The vast scope of learning makes the subject easily and completely understandable.

### SPECIFICATIONS:

- ❖ Study of Transformation Ratio in a Single Phase Transformer
- ❖ Study of Polarity Test in a Single Phase Transformer
- ❖ Study of Open Circuit Test in a Single Phase Transformer
- ❖ Study of Short Circuit Test in a Single Phase Transformer
- ❖ Study of Load Test and correspondingly determine the Efficiency and Voltage Regulation in a Single Phase Transformer

#### **Mains Supply : Single Phase, 230V AC ±10%, 50Hz**

❖ Single Phase Transformer

❖ Rating : 1kVA

❖ Primary Voltage : 0-125V, 0-125V

❖ Secondary Voltage : 0-125V, 0-125V

❖ Rated Current : 4A

❖ Single Phase Auto Transformer

❖ Primary Voltage : 230V

❖ Secondary Voltage : 0-270V

❖ Rated Current : 5A

❖ Digital Meters Used

❖ AC Voltmeter : 450V (2nos.)

❖ AC Ammeter : 5A (2nos.)

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- Wattmeter : 1500W
- MCB (SP) : 6A

### Features

- Inbuilt Single Phase Variac
- Equipped with Supply Indication Lamp
- Facility to use Fixed and Variable Load
- Control board consist of high grade FRP material to provide utmost safety to the users
- Terminals provided to use the optional externally
- Designed by considering all the safety standards
- Diagrammatic representation for the ease of connections
- Flexibility to configure Step-up, Step-down and Isolation Transformer
- Exclusive and Compact Design
- Product Tutorial (CD)

Three Phase Transformer Lab is an adaptable training system for the Electrical laboratories.

- The Product helps understand basic concepts and functioning of a Three Phase Transformer.
- The product is Represented in an easy way so that each test can be studied differently in proper sequence.
- Three Phase configurations such as Star-Star, Star-Delta, Delta-Star and Delta-Delta, Measurement of different losses and
- Consequently determine efficiency and voltage regulation at any predetermined load etc.
- Mains Supply :  $415V \pm 10\%$ , 50Hz

### Transformer Specifications

- Type : Three Phase
- Power Rating : 1kVA
- Primary Voltage : 415V
- Secondary Voltage : 230V
- Rated Current : 4A
- Graphical LCD display : 240 x 125 Pixel
- Dimensions (mm) : W 600 x D 450 x H 600
- Weight : 33kg (approximate)

### Scope of Learning Study of:

- Three Phase Configurations
- Open Circuit Test in a Three Phase Transformer
- Short Circuit Test in a Three Phase Transformer
- Load Test and correspondingly determine the Efficiency and Voltage Regulation in a Three Phase

- Operating Temperature : ambient to  $+50^{\circ}\text{C}$
- Certification : ISO Certified