

Tesca Order Code - 46505D

Transformer Trainer 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 Three Phase Transformer. The product is represented in such an easy way so that tests can be studied differently in proper sequence. The Lab practically expertises you in exercises like Polarity, Turns Ratio, Transformation Ratio, Efficiency and Voltage Regulation etc. The varied scope of learning makes the subject understanding complete. The setup is complete in all respect and requires no other apparatus. Practical experience on this setup carries a great educative value for Science and Engineering students.



Object

01. Study of Polarity Test in a Single Phase Transformer
 - 1.1 Additive Polarity
 - 1.2 Subtractive Polarity
02. Star and Delta Effect on Voltage and Current using Three Single Phase Transformers
 - 2.1. Transformers Connected in Star-Delta with Star Connected Load.
 - 2.2. Transformers Connected in Star-Delta with Delta Connected Load.
03. Study of Open Circuit Test
04. Study of Short Circuit Test
05. Study of Efficiency Curve
06. Study of Voltage Regulation.
07. Study of Transformation Ratio in a Step Down Transformer
08. Isolation Transformer

Technical Specifications

The board consists of the following built-in parts:

01. Multifunction meter provided to measure single and three phase Voltage, Current, Wattage, KWH, KW, KVA, Frequency, Power Factor and etc.
02. Three Transformers: Rating: 60VA
Primary Voltage: 0 - 230 V
Secondary Voltage: 0 - 7V, 12V, 16V
03. 4 Pole MCB: 2 Amp for short circuit and over current with output terminals and indicator.
04. Load: Three 60W Halogen Provided for Single and Three Phase Load.
05. Provision of Connecting Load in Star and Delta Configuration.
05. The unit is operative on 3 Phase 415V \pm 10% at 50Hz AC Mains.
06. All above equipment provided with 15A coloured terminals.
07. Strongly supported by detailed Operating Instructions, giving details of Object, Theory, Design procedures, Report Suggestions and Book References.

Features

01. Designed by considering all the safety standards.
02. Diagrammatic representation for the ease of connections.
03. Exclusive and compact design.
04. Enclosure ABS plastic molded with powder coated panel with screen printed

Note: Specifications are subject to change.