



Transformer Trainer and Testing

Category: Electrical Engineering · Model reference: MZM-4011



SPECIFICATIONS

General Description.

This distribution transformer trainer experiment apparatus is designed for the student to perform a wide range of electrical system and features of transformer. This apparatus allows the student to understand more on the single phase transformer, three phase transformer and distribution on transformer. It is a stand-alone unit which consists of a main frame, control panel, table top, relevant accessories mounted on lockable castors. The main frame is made by an epoxy coated steel structure with all components mounted within.

Experiments

- Finding transformer equivalent circuit.
- Study of transformer regulation.
- Measurement of winding temperature.
- Effect of type of load on transformer output waveform.
- Connection of wye-wye, delta-delta, closed wye-delta, open wye-delta and others.
- Distribution on motors and lamps as a load.
- Step down and step regulation.
- Study on motors and lamps as load test and correspondingly determine the efficiency and voltage regulation.

Specification

- Suitable for Laboratory usage.
- Input: 240/415 VAC / 50Hz.
- 3 Phases transformer trainer.
- Current rating 3A.
- Transformer Primary voltage 240V.
- Transformer Secondary voltage 120V.

- Protection Thermal Circuit Breaker.
- Adaptation with 3 Motors and 3 lamps as Load Test connection experiment.
- Services lines 2 sets of three lines + neutral
- Facilities easy and safe wiring by student.
- Each panel has ABS molded plastic sturdy enclosure, and colorful screw less overlays showing circuit diagram and its connection tag number for easy understanding and connections.

Optional

DATA ACQUISITION SYSTEM

- Voltmeter, multimeter and clamp ammeter for each phase for data acquisition.
- Connectors for 3 phase transformer
- 3 motors and 3 lamps as a load test
- Others transformer trainer accessories.

ELECTRICAL REQUIREMENT:

Services lines 2 sets of three lines + neutral

Approximately:

- OVERALL DIMENSIONS: 340 x 491 mm x 253mm
- GROSS WEIGHT: > 50 kg

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