



SINGLE-PHASE TRANSFORMER TRAINER DL 10103TG



Introduction

The trainer provides an experimental approach to the analysis of the behavior and characteristics of the single-phase transformer. It is composed of a supply, measurement and load unit and of two transformers.

Learning experience

Together with this transformer trainer is provided a complete manual with theoretical and practical part to allow the student to have complete knowledge of what is a transformer and how to use it.

Technical characteristics

This trainer is composed by:

Two single phase transformer with the following characteristics:

Transformer 1

Primary voltage: 24-42-48 V Secondary voltage: 2 x 12 V Rated power: 50 VA

Transformer 2

Primary voltage: 24-42-48 V Secondary voltage: 2 x 12 V Rated power: 100 VA





List of experiments:

- 1. Voltage transformation ratio
- 2. Current transformation ratio
- 3. Polarity of the windings
- 4. Measuring the winding resistances
- 5. No-load test
- 6. Short-circuit test
- 7. Test under resistive or capacitive load
- 8. Measuring the efficiency with the direct method
- 9. Heating test
- 10. The magnetic field

Displaying the hysteresis cycle

 Module allowing to obtain a low-voltage variable supply, to perform current, voltage and power measurements and to realize resistive and capacitive loads.

Technical features:

2 ac outputs: 0÷48V, 5A / 0÷10V, 10A 2 dc outputs: 0÷40V, 5A / 0÷5V, 10A

2 ac/dc ammeters: 1-5-10A 2 ac/dc voltmeters: 10-50-100V 1 wattmeter: 1-5-10A, 10-50-100V Resistive, capacitive and inductive loads

Power supply: 220 V, 50/60 Hz