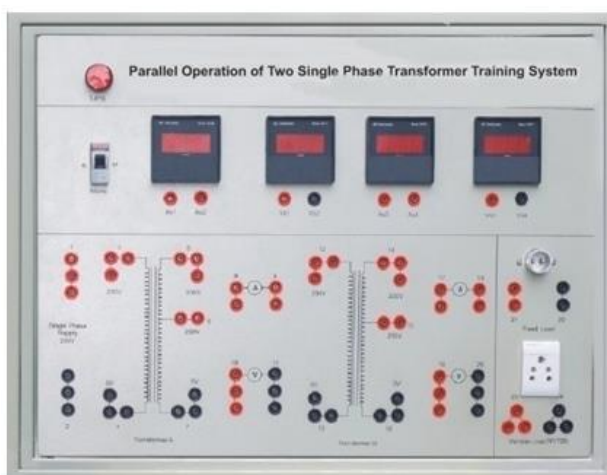


Parallel Operation of Two Single Phase Transformer Training System



** Shown image is just for illustration original may differ

Introduction

Parallel Operation of Two Single Phase Transformer has been exclusively designed to demonstrate the fundamental concepts of parallel connections of two or more single phase transformers. One can load the transformer more than the rating of the individual transformer to analyze Parallel operation phenomenon. Students can learn about the significance of connecting the two transformers in parallel and its effect on the system. Additionally, one can also learn the polarity in the transformers.

The training system helps to get fully acquainted with the functioning of a single phase transformer. The varied scope of learning makes the subject easy and interesting.

Product Features

- Control panel with digital microcontroller based measuring devices with high accuracy and resolution
- Transformer winding consist of copper for long term service
- Inbuilt Single Phase resistive load that to be controlled by separate switches with indicator
- Front board consists of MS Material with power coating to avoid any rust.
- Separate auxiliary supply facility to enable digital measuring instruments
- Control Panel with round grills fitted on both sides for cooling purpose.
- Provided with suitable protection such as fuses, MCB, etc wherever requires
- Specially designed BS10 Terminals and patch cords to eliminate electrical shock
- Lamp indicator for single phase mains supply
- Product is provided along with protection fuses, colored patch cords, single phase cords, User's manual having theory operating procedure with connecting diagram, FAQ, Glossary, etc

Technical Specifications

Mains Supply : Single Phase, 230VAC $\pm 10\%$, 50Hz

Single Phase Transformer (2Nos)

Rating : 1kVA

Primary Voltage : 0-230V $\pm 10\%$, 50Hz

Secondary Voltage : 0-210V – 220V – 230V $\pm 10\%$, 50Hz

Rated Current : 4A

Winding : Copper

Type : E-I Core

Digital Meters Used

Technology Used : Microcontroller based

AC Voltmeter : 500V (2nos.)

AC Ammeter : 10A (2nos.)

Single Phase Resistive Load

Rating : 1kW

Type : Resistive Tubes

Steps : 1A with indicators

Control Scheme : Through Toggle Switch

Protection Devices

MCB (DP)	: 6A
Glass Fuse	: 5A
Grounding Nut	: Available at the rear side of the panel

Experiments Can be performed:

- Study of Additive Polarity Test in a Single Phase Transformer
- Study of Subtractive Polarity Test in a Single Phase Transformer
- Study of parallel operation of two single phase transformers with equal voltage ratio
- Study of parallel operation of two single phase transformers with unequal voltage ratio

Supporting Accessories supplied with Product

- Patch Cords of different color scheme
- Single/Three Phase Mains Cord
- Extra Glass Fuses
- Operating Manual (softcopy)
- 10A, Single Phase Closed Type Autotransformer **(Optional)**

****Please feel free to share your queries or requirements by filling your details in ask query section or request a Quote section on the website, we will be happy to cater your requirement.**

ANTEKNOLOGIES

Near Himshikha Public School

Distt. Pathankot, Punjab – 145001

Contact Number: 9910307503, 8725829339

Email: anteknologies@gmail.com