

Three to Six Phase Conversion Training System



** Shown image is just for illustration original may differ

Introduction

Three to Six Phase Conversion Training System is a comprehensive training product used to illustrate the core concepts of Electrical Engineering. With this product, user can learn of how Three Phase Supply can be converted into Six Phase with proper phase shift by using three Single Phase Transformers. Separate terminals are provided to analyze Six Phase waveform using Single Phase as a reference waveform. The product familiarizes with the phenomenon of Polarity usually expressed as a round dot. User can also get to know the significance of Three Phase Parameters and verify the Star and Delta connection properties.

Product Features

- Control panel with digital microcontroller based measuring devices with high accuracy and resolution
- Transformer winding consist of copper for long term service
- Front board consists of MS Material with power coating to avoid any rust.
- Separate auxiliary supply facility to enable digital measuring instruments
- Equipped with supply indication lamps
- 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 for electrical safety
- Earthing screw provided at the back side of the control set-up
- Diagrammatic representation for the ease of connections.
- Product provides with protection fuses, colored patch cords, single phase cords, learning manual having theory operating procedure with connecting diagram, FAQ, Glossary, etc

Technical Specifications

Mains Supply : Three Phase, 415VAC $\pm 10\%$, 50Hz

Single Phase Transformer (Center tapped)

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

Secondary Winding : 30 - 0 - 30V $\pm 10\%$, 50Hz

Winding : Copper

Current Rating : 1A

Type : E-I Core

Step down Transformer

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

Secondary Winding : 0-18V $\pm 10\%$, 50Hz

Winding : Copper

Digital Meters Used

Technology : Microcontroller based

AC Voltmeter (72 x 72mm) : 500V

AC Ammeter (72 x 72mm) : 10A

Load Section : Bulb holder (3Nos)

Protection Devices

MCB (TPN) : 6A

Glass Fuse : 5A

Grounding Nut : Available at the rear side of the panel

Experiments Can be performed:

- Study of additive polarity of single phase transformer
- Study of subtractive polarity of single phase transformer
- Study of three phase to six phase conversion and analyzing of phase shifting phenomenon

Supporting Accessories supplied with Product

- Patch Cords of different color scheme
- Single/Three Phase Mains Cord
- Extra Glass Fuses
- Operating Manual (softcopy)
- 6A, Three Phase Closed Type Autotransformer **(Optional)**
- CRO / DSO **(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.**