



Transformer Trainer is a experiment training system useful for visualizing & demonstrating the functioning of different types of Transformers (single phase and three phases). The Trainer is specially designed to work at 440 V with safety. The terminations are done on BTI -15 type terminals for ease of connection and safety.

A detailed Instruction Manual is provided with all the necessary experiments, connecting diagrams etc. Necessary set of wires cords for Interconnection are provided.

SCOPE OF LEARNING:

- Study of 3 Phase Transformer
- Study of Single Phase Transformer

TECHNICAL SPECIFICATIONS:

3Phase Power Supply Module

- 4 Pole MCB of 415V, 4A
- 3Phase Power Indication with R-Y-B Indicator
- Inbuilt Contactor 230V,50Hz/11VA Coil
- Emergency Stop to Emergency Break
- R-Y-B-N Distribution Line (2 Points)

Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.



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Digital Meter Module for Primary

- AC Voltmeter (0-450V)
- AC Ammeter (0-10A)

Digital Meter Module for Primary

- AC Ammeter (0-10A) 2Nos.

3Phase Transformer Circuit Module:

- Consist of Circuit Diagram for Primary and Secondary
- 3Phase Power Indication with R-Y-B Indicator for Primary Input
- 3Phase Power Indication with R-Y-B Indicator for Secondary Output

1Phase Transformer Circuit Module:

- Consist of Circuit Diagram for Primary and Secondary
- Single Phase Auto Transformer 0-230V,4A
- Bidirectional Multi Function Meter (Led Display), V, I, Hz, pF, KVA, (Modbus RTU RS-485 (Optional))

Digital Meter Module for Secondary

- AC Voltmeter (0-450V)
- AC Ammeter (0-10A)

Digital Meter Module for Secondary

- AC Ammeter (0-10A) 2Nos

Three Phase Resistive Lamp Load (Star Connected)

- 6 Nos. Lamp With Switch Control
- Output Termination With BTI-15 Terminals in R-Y-B

SALIENT FEATURES:

- Front panel built with high class insulated Bakelite sheet with Sticker well printed circuits and symbols.
- Instruction manual.
- Patch Cords 4mm (Heavy Duty) 1Meter Length.
- High Voltage Test Points are Provided With 4mm Safety Sockets

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- The trainer is housed in Rack Type Channel Extruded Panel
- Panel is modular based easy to place and remove the Module.
- Short Circuit protection with the MCB.
- Size of the trainer set 42"x24"



**3PHASE RESISTIVE LOAD (3KW)
 TECHNICAL SPECIFICATIONS:**

12 Control switches given board for current control for Each Phase
 Each switch controls 1A current.
 12 Nos of Rheostats are mounted inside the cabinet having value of 1A.
 Rating of Rheostats are 440Ohm,1A at 415V
 Current Meter is provided for Load Measurement
 Operating Voltage 415V, 50Hz AC (3Phase)

SALIENT FEATURES:

Front panel built with high class insulated Bakelite sheet with Sticker well printed circuits and symbols.
 Instruction manual.
 3 Phase Indications with 25mm Multi Colored Indicators.
 Patch Cords 4mm (Heavy Duty)
 High Voltage Test Points are Provided With 4mm Safety Sockets
 The trainer is housed in Metal cabinet.
 Short Circuit protection with 4Pole MCB.
 Size of the trainer set 18"x24"
 Easy to move as wheels are given



**SINGLE PHASE TRANSFORMER (1KVA)
 TECHNICAL SPECIFICATIONS:**

- Transformer provided will be high quality copper wound.
- Primary of transformer of 220V and secondary of the transformer will be 110V.
- There are 3 tapping in the secondary at 50%, 86%, 100%.

• For Cut Section Transformer will be housed in Visible Cabinet

SALIENT FEATURES:

- Front panel built with high class insulated Bakelite sheet with Sticker well printed.
 - Instruction manual.
 - High Voltage Test Points are Provided With 4mm Safety Sockets/BTI-15 Terminals
 - Transformer will be differently housed in a MS powder cabinet for easy carrying and other general use.
 - Short Circuit protection with the Fuse.
- Size of the Unit set 12"x8"

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 - Transformer will be differently housed in a MS powder cabinet for easy carrying and other general use.
 - Short Circuit protection with the Fuse.
- Size of the Unit set 12"x8"



THREE PHASE TRANSFORMER

SCOPE OF LEARNING:

Use of Three Phase Transformer

TECHNICAL SPECIFICATIONS:

Power Supplies:

AC Power Supply 440/220V AT 1.5KVA
 Operated on Mains power 415, 50Hz ±10%

SALIENT FEATURES:

Rating 1KVA per Phase
 Transformer ration is Step down 2:1.
 440V with Tapping at 0%, 0%, 86.6% and 100%.
 High insulation copper winding.
 Transformer rating is available up to 1-10KVA.
 Front panel built with high class insulated Bakelite sheet with Sticker well printed.

Instruction manual.
 High Voltage Test Points are Provided With 4mm Safety Sockets/BTI-15 Terminals
 The trainer is housed in Metal cabinet.
 Short Circuit protection with the Fuse.
 Size of the trainer set 18"x12"

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THREE PHASE AUTO TRANSFORMER

SCOPE OF LEARNING:

Use of Three Phase Variac

TECHNICAL SPECIFICATIONS:

Power Supplies:

AC Power Supply 0-415V AT4A

Operated on Mains power 415, 50Hz $\pm 10\%$

SALIENT FEATURES:

Front panel built with high class insulated Bakelite sheet with Sticker well printed.

Instruction manual.

Winding Auto Transformer is Copper Wound.

High Voltage Test Points are Provided With 4mm Safety Sockets/BTI-15 Terminals

The trainer is housed in Metal cabinet.

Short Circuit protection with the Fuse.

Wheels are provided to move easily.

Approx Weight of the Unit will be nearly 25Kgms.

Size of the trainer set Approx 20"x12"

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