



Technical Specifications:

Training Contents:

- Single Phase Transformer:
- Measurement of the single-phase transformer ratio and parameter by no-load and short circuit experiment
- Drawing out of the T type equivalent circuit diagram according to parameters to be measured from no-load and short circuit experiment
- Measurement of the running characteristic of transformer by resistive / inductive / capacitive load experiment
- Parallel operation of transformer (polarity discrimination, parallel two transformers)
- Three Phase Transformer:
- High / Low voltage winding discrimination, primary / secondary polarity measurement
- Measurement of the three-phase transformer ratio and parameter by no-load and short circuit experiment
- Three phase transformer Y-Y12 connection
- Three phase transformer Y-Y6 connection

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



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- Three phase transformer Y- Δ 11 connection
- Three phase transformer Y- Δ 5 connection
- Voltage vector diagram of three phase transformer under different connections

Features and Technical Specification:

- This trainer should be designed to meet the operational training of electrical transformer, covering a variety of training topics for single phase and three phase characteristics, as well as parametric measurement
- The frame should adopt standard aluminum profile with modular experiment panel design, thus, making it easy to build different experiment combination on the flexible two-layer structure
- All the upper parts should be removable including the experiment module, power supply module and frame support
- All terminals should led out on printed composite panel with 4mm safety socket and connected by full sealing sheathed pluggable connector
- The complete unit should be movable with lockable truckles on bottom
- Mobile aluminium experiment stand:
- High compressed chipboard tabletop & baseplate
- Solid impact-resistant protective edging
- Minimum 6 extruded aluminium profiles with 8 grooves
- Minimum 3 H-shaped profiles for panel organization
- 4 swivelling casters, 2 have brakes
- Table & upper frame part are separable for easy delivery
- Cable holder should be attached to side column for at least 48 cable pcs
- Three phase power supply:
- RCCB and momentary pushbutton with lamp, green / red
- Key switch, 1NO/NC and AC contactor
- Input CEE socket, output 4mm safety socket
- Three phase voltage regulators:

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- 1KW regulator, 0 ~ 450V, 0 ~ 250V variable output
- Indicating lamp R/G/Y
- Output voltage monitoring meter x3
- Selective input and output voltage display
- Single phase transformer 1.0:
 - PN = 77W, UN = 220V/55V, IN = 0.35A/1.4A
 - Transformer x3
 - With all terminals led to colorized 4mm safety socket
- Three phase transformer 1.0:
 - PN = 200W, UN = 220V/55V, IN = 0.52A/2.09A
 - With all terminal led to colorized 4mm safety socket
- Power & Power factor meter 1.0:
 - Single phase active power meter, digital, 0 ~ 1000W x2
 - Power factor meter, digital, 380V/5A
 - With all terminal led to colorized 4mm safety socket
- AC voltmeter & AC ammeter 2.0:
 - Voltmeter digital AC 0 ~ 450V x3
 - Ammeter digital AC 0 ~ 3A x3
 - With all terminal led to colorized 4mm safety socket
- Standard size available for frame insertion
- Capacitive load 1.0:
 - Fuse protector 3A x 3
 - 3-fold capacitors of 1uF/2uF/4uF/6uF
 - With all terminal led to colorized 4mm safety socket
- Inductive load 1.0:
 - Auto former regulator 0 ~ 250V with fixed inductor group x3

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- Inductance value 1H, adjustable, 0.48A
- Fuse protectors x3
- With all terminal led to colorized 4mm safety socket
- Resistive load 1.0:
- Double-linked resistor x3
- Each with variable range 0 ~ 900Ω, 0.41A
- Fuse protector x6

Accessories:

- Safety whole sealing cable: conductor cross section: 16AWG tinned copper wire, 3kV, 20A, with axial socket
- Experiment guidebook
- Wiring instruction map
- Warranty: 1(One) year with services
- Documents: Manufacturer's Authorization Letter with contact details should be submitted
- ISO Certificate and Catalogue should be submitted
- Installation, Testing and Commissioning: Should be performed by bidder's qualified and experienced engineers
- Training: Training by bidder's qualified and experienced engineers at DTTTI premises should be provided

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