

KEE-01 TRANSFORMER TRAINER



KET-03 Transformer System is a rugged training system for the Electrical laboratories mounted on Alluminium profile rack with sturdy table top flat panel. Each panel has ABS molded plastic sturdy enclosure with 4mm shrouded connectors showing circuit diagram & its connection tag numbers for easy understanding and connections. The product helps you to get fully acquainted with the basic concepts and functioning of a Single/Three Phase Transformer.

Specifications:

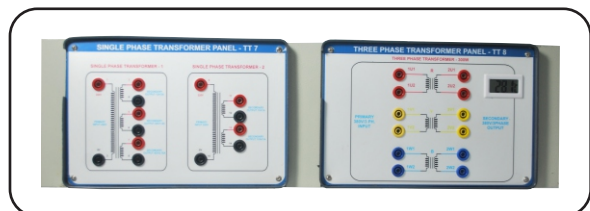
- Machine trainer having control panel should provided in 40X40mm Alluminium profile rack with sturdy table top flat panel .
- Should have 6 no's of ABS plastic panel mounted on the aluminum rack with mimic diagram
- All input & output are terminated in 4mm shrouded connector, Should provide 4mm banana cable for experiments.
- Should have 3phase DOL starter 4pole MCB, contractor & relay panel
 - 4 pole MCB of 415 V/4A.
 - DOL 9A Contactor with 230V / 50 Hz / 11VA COIL
 - Bimetallic thermal O/L relay with range 1.4A - 2.3A
- Should have 3 phase multifunction meter panel (2nos).
 - Bidirectional Multifunction
 - 3 Phase $\frac{3}{4}$ wire, 415V, CT Input 5A
 - LCD/LED display, Aux supply 230V, 45-65 Hz, 5W
 - V, I., Hz, Pf, KVA, KW, KWH
- Should have ON/OFF Switch panel.
 - ON/OFF, 4 pole 2 way switch, 6A/440V.
- Should have Variac panel.
 - 0-200V /2A Variac .

- Should have Lamp Load panel.
 - 3 Lamp Load socket with 100w Bulb .
- 1 Phase Transformer 500VA (2Nos)
 - 0-220V Primary input (1x2 socket)
 - 0-110V Secondary output (2x2 socket) .
- 3 Phase Transformer 500VA.
 - 0-415V Primary input (3x2 socket)
 - 0-415V Secondary output (3x2 socket) .

Experiment List:

- Finding Transformer equivalent circuit.
- Study of transformer regulation.
- Measurement of winding temperature.
- Effect of type of load on transformer output waveform.
- Three phase transformer connections.
- Scott connection : Using 2 Nos. of 1phase transformer 3ph. to 2ph. conversion.
- Parallel Operation on 1 Phase transformer.
- Effect of variety of three phase connections on regulation and current carrying capacity of transformers.
- Harmonic cancellation & shift in phasor diagram due to different connections, Working of Teaser transformer
- Back to back test (sumpner test) on two identical single phase transformers.

TRANSFORMER UNIT



Note : Specifications can be altered without notice in our constant efforts for improvement.