Order Code - 55833
Experiments on Single Phase Transformer
(open, Short, Efficiency & Ratio)

55833 Experimental setup has been designed Specifically to study the performance of transformer and determine open circuit test, short circuit test, efficiency and voltage regulation of 1f Transformer. The setup consist of voltmeters, ammeters, wattmeters, load resistors variac and transformer.
The setup is complete in all respect and requires no other apparatus. Practical experience on this setup carries a great educative value for Science and Engineering students.

OBJECT

01 To perform open circuit test of 1f Transformer.
02 To perform short circuit test of 1f Transformer.
03 To determine efficiency and regulation of 1f Transformer.
04 Verification of transformation ratio of Transformer.

FEATURE

The board consists of the following built-in parts :

01 Moving Iron AC portable Voltmeter / :
Housed in bakelite case with knife edge pointer & anti parallax mirror scale of 140mm Ammeter/Wattmeter length, spring controlled movement, having accuracy class 1.0.
1.1 Two moving iron AC Voltameter 0 – 300 V.
1.2. One moving iron AC Voltmeter 0 – 75 V.
1.3 Two moving iron AC Ammeter 0 – 10 Amp.
1.4 One moving iron AC Ammeter 0 – 100 mA.
1.5 Two Wattmeter single phase, dynamometer type, Multirange, current coil 5/10 Amp. Potential coil 75/150/300 Volt. 1.6 Wattmeter single phase, dynamometer type current coil 0.5 Amp. Potential coil 300 Volt.
02 Variac Variable voltage transformer table/floor mounting with enclosure input 230V, output 0–270V at 8 Amp.
03 Transformer for study Input 230V O/P 150V at 5Amp.
04 Fixed Resistance in three steps : Use two heating rods of 50-70 ohm, 750 Watt each, based on cement asbestus sheet of size 6 x 12 inch, output are on terminal with connecting series & parallel connections by switches, to obtain different resistance 100-140 ohm, 50-70 ohm, 25-35 ohm approx.
05 Weight : 44 Kg. (Approx.)
06 The unit is operative on 230V ±10% at 50Hz AC Mains.
07 Set of connecting wires.
08 Strongly supported by detailed Operating Instructions, giving details of Object, Theory, Design procedures, Report Suggestions and Book References.

Note: Specifications are subject to change.

Tesca Technologies Pvt. Ltd.
IT-2013, Ramchandrapura Industrial Area, Sitapura Extension,
Near Bombay Hospital, Vidhani Circle, Jaipur-302022, Rajasthan, India,
Tel: +91-141-2771791 / 2771792; Email: info@tesca.in, tesca.technologies@gmail.com
Website: www.tesca.in