VERITAS Engineering

Catalogue

of

AC Circuit & Network Trainer

AC Circuit & Network Trainer

Model: VACNT-01
Brand : VERITAS

Picture : AC Circuit & Network Trainer

Feature

1. 1φ Practical Capability
2. 3φ Practical Capability
3. AC Series Resonance
4. AC Parallel Resonance
5. Power & Power Factor Measuring Capability

Technical Specification

Power source
Input voltage: 1phase= 220V AC, 50Hz, o3 phase = 380 ~ 400V AC

Output Capacity:
Resistive Load: 220V, Capacity 1-ϕ = 1200 W ; 3- ϕ = 1200 W;
Inductive Load : 220V, 50 Hz. Capacity 1- φ = 120VAR-300VAR , 3- φ =350VAR ;
Capacitive Load : 220V, 50 Hz., Capacity 1- φ = 200VAR, 3- φ = 200 VAR ;

Additional Device
1. Variable AC Power Supply (0 – 250V, 2 Amp, 1φ)
2. Power Socket (1φ, 220V AC) for External Load Connection – 04 Pcs

Size: 3 Feet x 2.5 Feet x 2 Feet (L x H x W) (With Stand)

Accessories:

1. AC Circuit & Network Trainer (ACNT-01) – 1 Unit
2. **Connecting Cord/Cable : 1 Set**
   Both Side Banana Socket (Male-Male Combination)
   Length: 12 Inch – 10 Pcs,
   Length: 30 Inch – 10 Pcs.
3. **Experimental Catalog – 1 Unit**

List of Experiment

1. Verification of Ohm's Law
2. Verification of Series Ckt
3. Verification of Parallel Ckt
4. Power Measurement of Electrical Load
5. Determining the R & L of a RL Series Circuit
6. Determining the R & C of a RC Series Circuit
7. Determining the R, L & C of a RLC Series Circuit
8. Determining the Power Factor of a RLC Series Circuit
9. Determining the R, L & C of a RLC Parallel Circuit
10. Determining the Resonance frequency of Series Circuit
11. Determining the Resonance frequency of Parallel Circuit
12. Measure Line & Phase Voltage and Current of Star Connected Load
13. Measure Line & Phase Voltage and Current of Delta Connected Load
14. Measure Power of Balanced Star Connected Load
15. Measure Power of Balanced Delta Connected Load
16. Measure Power & Neutral Current of a Unbalanced Star Connected Load
17. Study the characteristics of PFI device and improving power factor of a plant or a load.
18. Measuring resonant frequency, Q - factor of R-L-C series circuit and parallel circuit.
19. Measuring the active power, reactive power, apparent power of an electrical load, and drawing Power Triangle.