VERITAS Engineering

Catalog
Of

Transmission System Trainer

Brand: VERITAS

Model: VTST-001

Picture : Transmission System Trainer

Technical Specification

Input:
1. AC (3φ 4 Wire), 380V, 50 Hz
Output:
AC (3φ 4 Wire), 380V, 50 Hz
Output Terminal Capacity: Resistive Load 600W, 380V Load
Inductive Load 800VA, 380V Load
AC Output Connection Facility (Power Socket): 6 No
Protection System:
Incoming AC (3φ 4 Wire), 380V with Circuit Breaker (4P) – 1 Nos
Outgoing AC (3φ 4 Wire), 380V Load Connection with Circuit Breaker (4P) – 1 Nos

Measuring Instruments:
Digital Multifunctional 3 Phase Wattmeter including
(KW, KVA, KVAR, V_{L-N}, V_{L-L}, I_P, I_L, Cosθ) – 2 Pcs,
Digital AC Voltmeter – 2 Pcs,
Digital AC Ammeter – 2 Pcs,

Transmission Line Parameter:
Transmission Line Equivalent Resistor – 6 Pcs,
Transmission Line Equivalent Inductor – 6 Pcs,
Transmission Line Equivalent Capacitor – 6 Pcs,

Connecting Cord/Cable :
Banana Safety Cable:- 1 Set
Size: 4 Feet x 1.5 Feet x 2.5 Feet

List of Practical

1. Measurement the Voltage Regulation of Short Transmission Line
2. Measurement the Efficiency of Short Transmission Line
3. Measurement the Voltage Regulation of Medium Transmission Line (End Condenser Method)
4. Measurement the Efficiency of Medium Transmission Line (End Condenser Method)
5. Measurement the Voltage Regulation of Medium Transmission Line (Nominal "**π**" Method)
6. Measurement the Efficiency of Medium Transmission Line (Nominal "**π**" Method)
7. Measurement the Voltage Regulation of Medium Transmission Line (Nominal "**T**" Method)
8. Measurement the Efficiency of Medium Transmission Line (Nominal "**T**" Method)
9. Power Factor Improvement of an Electrical Load (Inductive)
10. Observe Ferranti Effect of Transmission Line