

## Switchgear and Protection Trainer



### SB-801

#### **Overview:**

1. Show skill in connecting cutout, MCB/MCCB in a circuit.
2. Test the rating of circuit breaker (6A, 10A).
3. Demonstrate poly-phase system and phase sequence.
4. Show skill in connecting Phase Fault Relay.
5. Show skill in phase missing test.
6. Show skill in Overvoltage test.
7. Show skill in under voltage test.
8. Show skill in phase sequence test.
9. Perform star-delta conversion in a power system.
10. Study the different parts of an energy meter.
11. Study the different parts of a Busbar, Thermal over load relay, Magnetic contact, Timer etc.
12. Measure the energy of a three phase circuit by three phase energy meter.
13. Perform the identification of the parts of a three phase induction motor.
14. Start a 3-phase induction motor by star-delta starter using magnetic contactor switch.
15. Start a 3-phase induction motor by Auto star-delta starter using Timer & magnetic contactor switch.
16. Categorize different types of fuses and measure the current carrying capacity of HRC fuse.

### **Specification:**

Three Phase AC/DC Power Supply:  
Rated Input Voltage: 400 V AC ( $\pm 5\%$ ) Three Phase 4-wire  
Rated Output Voltage: 400 V AC ( $\pm 5\%$ ) Three Phase 4-wire  
Rated Output Voltage: 0~ 400 V AC ( $\pm 5\%$ ), Three Phase 4-wire  
Rated Output Current: 5 AC ( $\pm 5\%$ )  
Rated Output Voltage: 120 V DC ( $\pm 5\%$ ), 5Amp  
Rated Output Voltage: 0~ 220 V DC ( $\pm 5\%$ ),  
5Amp Short Circuit Protection Facility 4mm  
safety jack Connection facility  
Air Cooling system facility

### **Control Board:**

Three Phase Energy Meter: 1 EA  
BAS Bar: 4EA  
Circuit Breaker: 3EA (10Amp)  
Cartridge Fuse: 3EA (10Amp)  
HRC Fuse: 3EA (15Amp)  
Thermal Overload Relay: 1 EA  
Phase fault Relay: 1EA  
Digital Timer: 2EA  
Magnetic Contractor: 3EA  
Selector Switch: 2 EA  
Digital Timer: 2EA  
Rated Input Voltage: 400 V AC ( $\pm 5\%$ ) , 50Hz Three Phase 4-wire  
Three Phase Load:  
Load Type: Resistive  
Load Capacity: 900Watt  
Connection: Star-Delta connection facility  
Load change Facility: 300 Watt, 600 Watt, 900 Watt  
Load Trainer Size (L x H x W)= (18x36x12) Inch

1 Training Manual  
4mm safety banana socket  
Trainer Size (L x H x W)= (60x36x12) Inch  
Including Working Table  
Weight: 100Kg  
Power requirements: 220~240V AC, 50Hz  
Built-in short circuit protection system.