



46585B Three Phase Transmission Line Symmetrical & Unsymmetrical Fault Trainer is a training system designed to explain the basic faults which can occur in a Transmission Line. Using Three Phase step down transformer, the training product reinforces the knowledge of all the basic faults in Transmission Line and corresponding sequence characteristics. In addition to this, it also provides an opportunity to a student to use a wide variety of electrical components such as MCB, Selector Switch, Ammeter, Voltmeter, Three Phase Transformer, Indicating Lamps, Fuse etc. This product along with the learning material represents almost all faults in Power System training course.

# Features:

- 01. Fast response time
- 02. High quality DPM
- 03. Test terminals provided to analyze the waveforms
- 04. Line Voltage and Phase Voltage selection facility
- 05. Designed by considering all the safety precautions
- 06. Diagrammatic representation for the ease of connections

## **Technical Specifications:**

Input Supply :  $0-415V AC \pm 10\%$ , 50Hz Auxiliary Supply :  $0-230V AC \pm 10\%$ 

## **Three Phase Transformer**

Rating : 1kVA

Primary Voltage 415V AC (Line Voltage) Secondary Voltage 240V AC (Line Voltage)

### **Potential Transformer**

Primary Voltage : 240V AC Secondary Voltage : 18V AC Current : 500mA

Note: Specifications are subject to change.

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### **Current Transformer**

Ratio : 1:1 and 1:2500 Current : 5A and 20A

Operating Voltage : 30V Fault Current : 5A

Meters Used

Voltmeter : 500V AC Ammeter : 5A AC

MCB 10A

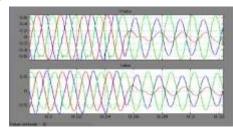
Dimension (mm) : W 824 x D 350 x H 624 Weight : 50kg. (Approximate)

#### **Experiments:**

- 01. Line to Ground (L-G) Fault analysis of a Single Phase Transmission Line
- 02. Single Line to Ground Fault (L-G) analysis of a Three Phase Transmission Line
- 03. Line to Line Fault (L-L) analysis of Three Phase Transmission Line
- 04. Double Line to Ground Fault (L-L-G) analysis of Three Phase Transmission Line
- 05. Symmetrical L-L-L Fault analysis of Three Phase Transmission Line
- 06. Symmetrical L-L-L-G Fault analysis of Three Phase Transmission Line

## **Optional Accessories:**

- 01. Three Phase Variac 10A
- 02. DSO



Three Phase waveform under fault conditions