



46617 Over Current Relay Testing System is a useful learning product for electrical laboratories. Over Current Relay monitors general balanced overloading and has current/time settings. These settings determine the protective schemes. The relay is IDMT type which has different tripping time characteristics with different current conditions. These are classified in accordance with their characteristic curves which indicate the speed of tripping operation. The typical settings for relay is 0.5-2 Amp in 1-10 seconds.

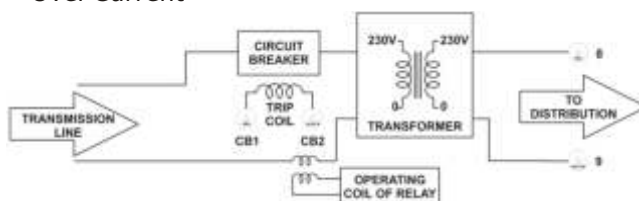
46617 has accurate voltage, current & time measurement. It includes built-in variable supply, digital voltmeter, ammeter, timer. The timer operation is automatic when current is applied to relay. This automatic operation ensures accurate tripping time measurement.

### Features

- DPM using 7 seven segment LED for better visibility
- Electromechanical relay to understand internal mechanism and its working
- Inbuilt automatic timer that starts and stop with relay
- Inbuilt Power Source for relay
- Diagrammatic representation of relay connection in transmission line
- Exclusive and attractive design
- Designed by considering all the safety standards

### Scope of Learning

- To study the IDMT Over Current Relay & its applications
- To study and use plug setting multiplier
- To study and use time setting multiplier
- To study and verify the operating Characteristics of Over Current



For understanding the role of relays in real time transmission system here a circuit of transmission line is provided from source to distribution with proper placing of all its require components

### Technical Specifications

- 01 Mains Supply** : 230V AC  $\pm 10\%$ , 50Hz  
Mains : On/Off by MCB 5Amp  
Indications : By Neon
- 02 Single Phase Variac**  
Input : 230V AC

Note: Specifications are subject to change.

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Output : 0 - 270V  
Current : 0-5Amp

### 03 Transformer

Rating 40W, Input 230V, Output 230V

### 04 Over current relay

Type : Inverse time  
Primary voltage : 110V AC, 50Hz.  
Current Setting : 0.5A, 0.75A, 1A, 1.25A, 1.50A, 1.75A and 2A  
CT Secondary : 1A

### 05 Display Measurement

Digital AC Voltmeter: 0-300V  
Digital AC Ammeter : 0-5Amp.  
Timer : 10mSec - 30 min.

06 Load : Bulb 40W  
07 Dimensions (mm) : L 800 x H600 x D350  
08 Weight : 15 kg (Approx)

### LIST OF ACCESSORIES:

- Shrouded Patch cord 4mm length 50/100cm Red-12
- Shrouded Patch cord 4mm length 50/100cm Black-10
- Rheostat 110E 5Amp-01

