

# Three Phase Over Current & Earth fault Numeric Relay Training System



\*\* Shown image is just for illustration original may differ

## Introduction

Three Phase Over Current & Earth fault Numeric Relay Training System is a useful product for Electrical Power System Laboratories. The main purpose of protection relay is to detect and identify faults and interrupts power to the equipment to avoid the entire network to fail or cause more damages to personnel or equipment. An Over Current Relay operates when the load current exceeds a preset value, whereas the function of Earth Fault Relay is to protect any system from earth fault. It includes inbuilt Microcontroller based Numerical Relay with facilities to select various characteristic curves at different Time Multiplier Settings (TMS) and Current Settings.

## Product Features

- Compatible for over current and earth fault relay
- Numeric Relay provides with different Curve's Selection Facility
- Large Font LCD for input current and tripping time display
- Provided with Current Injection Source
- Microcontroller based Numeric Relays Demonstration
- Front board consist of MS Material with power coating / epoxy paint to avoid any rust
- Separate auxiliary supply to actuate digital measuring devices
- Specially designed BS10 Terminals and patch cords for electrical safety
- Earthing screw provided at the back side of the control set-up
- Product is provided along with protection fuses, colored patch cords, single phase cords, User's manual having theory operating procedure with connecting diagram, FAQ, Glossary, etc

## Technical Specifications

<b>Mains Supply</b>	: Three Phase, 415V $\pm$ 10%, 50Hz
<b>Auxiliary Supply</b>	: 230V $\pm$ 10%, 50Hz
<b>Display Measurements</b>	
Current Input	: >100mA
Time Accuracy	: 1 Second
<b>Over Current and Earth Fault Relay</b>	
<b>Make</b>	: Ashida / Alstom
Input Current	: Suitable for CT Secondary 5A (or) 1A
Pick up	: Within 1.1 times of set value
Reset value	: 90% to 95% of pickup
Auxiliary Supply	: 18-250V AC/DC
Rheostat	: 3Nos. (use as current adjustment)
MCB (TPN)	: 10A

### **Experiments Can be performed:**

- Study Operating Characteristics of Three Phase Over Current and Earth Fault Numeric Relay with different Time Multiplier Settings (TMS) and Current Setting

### **Supporting Accessories supplied with Product**

- Patch Cords of different color scheme
- Single/Three Phase Mains Cord
- Extra Glass Fuses
- Operating Manual (softcopy)

**\*\*Please feel free to share your queries or requirements by filling your details in ask query section or request a Quote section on the website, we will be happy to cater your requirement.**