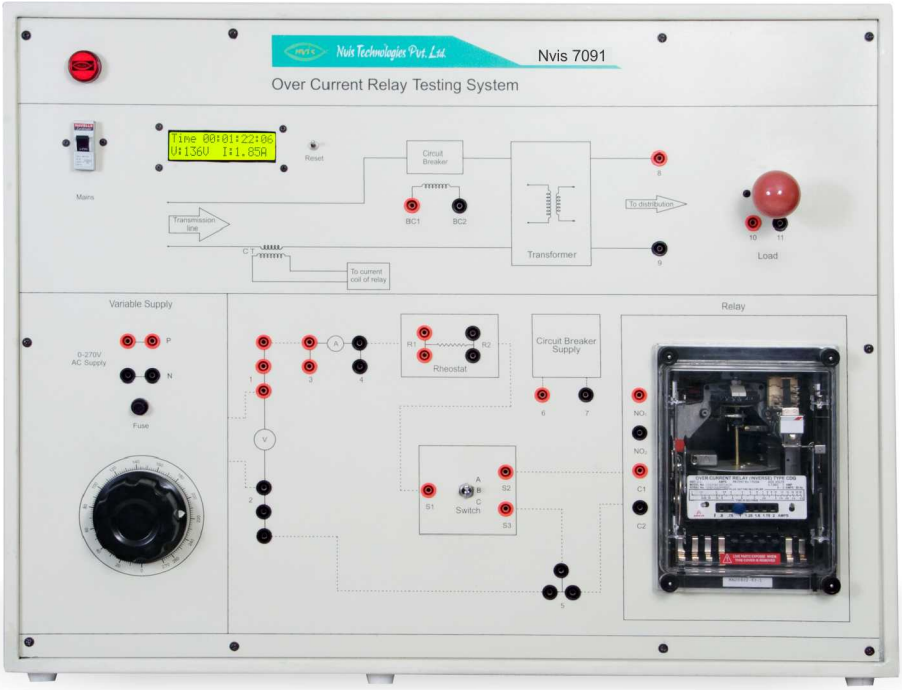
Over Current Relay Testing System

Nvis 7091



Nvis 7091 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.

Nvis 7091 has accurate voltage, current and 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

- **Alphanumeric 16 x 2 Big Font LCD for better visibility**
- **Electromechanical relay to understand internal mechanism and its working**
- **Simultaneous display of voltage, current on LCD**
- **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**
- **Online product tutorial**

Over Current Relay Testing System

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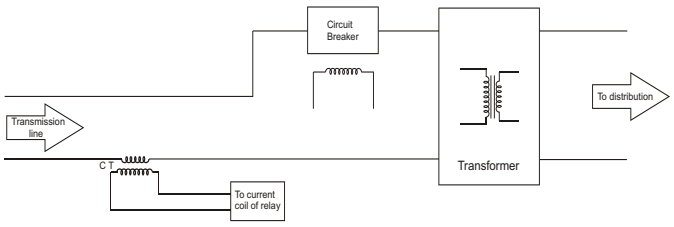
Scope of Learning

- 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 Relay at various plug & time settings

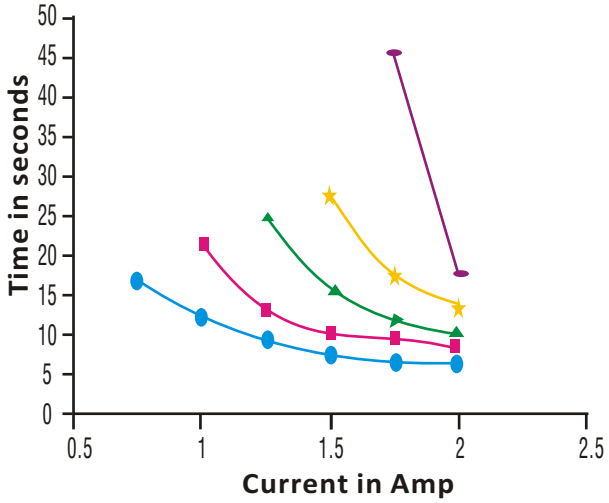
Technical Specifications

Mains Supply	:	230V ±10%, 50Hz
Rheostat	:	110Ω, 5A
Single Phase Variac		
Input	:	230V
Output	:	0 - 270V
Current	:	0 - 5A
Over Current Relay		
Type	:	Inverse Time
Normal Voltage	:	110V AC, 50Hz
Current Setting	:	0.5A, 0.75A, 1A, 1.25A, 1.50A, 1.75A and 2A
CT Secondary	:	1A
Measurement		
Voltmeter	:	25 - 300V
Ammeter	:	200mA - 5A
Timer	:	10mSec - 30min



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

Characteristic of IDMT Over Current Relay



Subject to change - Version 2.0

Designed & Manufactured in India by

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