

OMEGA TYPE 20 015 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.

OMEGA TYPE 20 015 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

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

OBJECTS:

- 01 To study the IDMT Over Current Relay & its applications
- 02 To study and use plug setting multiplier
- 03 To study and use time setting multiplier
- 04 To study and verify the operating Characteristics of Over Current Relay at various plug & time settings.



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

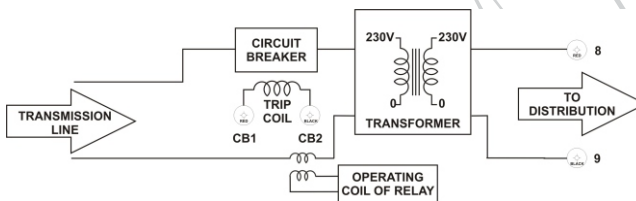
05 Display Measurement

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:

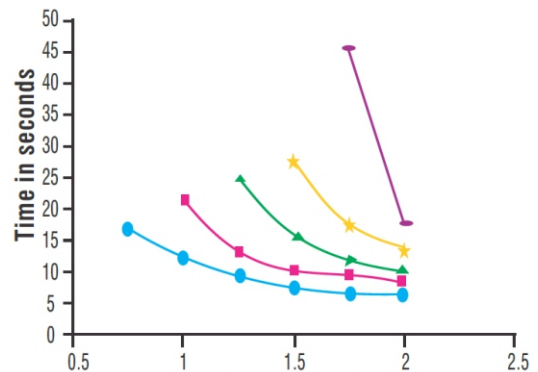
- 01 Shrouded Patch cord 4mm length 50/100cm Red ..12
- 02 Shrouded Patch cord 4mm length 50/100cm Black 10
- 03 Rheostat 110E 5Amp.....01



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



PLUG SETTING MULTIPLIER

We are committed to the continuous development of our products, and therefore reserve the right to amend specifications without prior notice.

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