

**SYMMETRICAL AND UNSYMMETRICAL
FAULT DEMONSTRATOR**

OMEGA TYPE TYPE 20 013

OMEGA TYPE-20013: "Symmetrical and Unsymmetrical fault Demonstrator" 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, Multifunction Meter, Three Phase Transformer, etc.

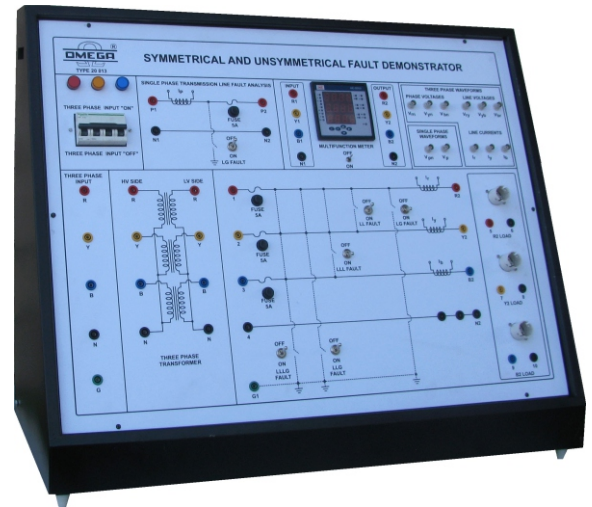
This product along with the learning material represents almost all faults in Power System training course.

FEATURES:

- 01 Fast response time
- 02 High quality digital meters
- 03 Three Phase supply indication
- 04 Three Phase current selection
- 05 Line Voltage and Phase Voltage selection
- 06 Simultaneous Symmetrical and Unsymmetrical fault selection
- 07 Test terminals for waveforms analysis
- 08 Three Phase Transformer for circuit isolation
- 09 Designed by considering all the safety precautions
- 10 Diagrammatic representation for the ease of connections

OBJECTS:

- 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.



TECHNICAL SPECIFICATION:

- 1 Mains Supply : 0-415VAC \pm 10%, 50 Hz
- 2 Auxiliary Supply : 0-230V AC \pm 10%.
- 3 Three Phase Transformer
Rating : 1kVA
Primary Voltage : 415V AC (Line Voltage)
Secondary Voltage : 240V AC (Line Voltage)
- 4 Potential Transformer
Primary Voltage : 240V AC
Secondary Voltage : 18V AC
Current : 5.5 Amp.
- 5 Current Transformer
Ratio : 1:1 and 1:2500
Current : 5A and 20A
Operating Voltage : 30V
Fault Current : 5A
- 6 Multifunction Meter
Bidirectional Multifunction Meter
3 Phase 4 wire, 440V, Current 5A
LED display,
Aux supply 230V, 45-65Hz, 5W
To measure parameters ie Voltage Current.,
KVA, Frequency, Power factor, Active Power
(W), Reactive Power (vary) etc.
- 7 Dimensions : W800 x D350 x H600 (mm)
- 8 Weight : 50Kg (approximate)

OTHER APPARATUS

- 1 Three phase variac Input 0-415 V
Output 0-470 V current 10 Amp

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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