

# PRIMARY CURRENT INJECTION TEST SET 3000A AT 3kVA



## INSTRUCTION MANUAL



شركة الإنشراح للإمدادات الكهربائية (ذ.م.م.)

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(A) SPECIFICATION:

- |               |   |   |
|---------------|---|---|
| 1. INPUT      | : | 240 Volts, 1 Phase, 50 Hz. A.C.   |
| 2. OUTPUT     | : | i) 0 to 2 Volts / 3000 Amps.<br>ii) 0 to 240 Volts / 28 Amps.<br>iii) _____ |
| 3. DUTY CYCLE | : | i) Continuous<br>ii) _____ Minute ON, _____ Minute off                      |
| 4. COOLING    | : | i) Natural Air Cooled (AN).<br>ii) Natural Air/Oil Cooled Section.          |

(B) GENERAL FEATURES:

The Dimmerstat-Transformer Combination Current Injection Set is essentially variable a.c. low voltage and high current source, which is used for testing and calibration of circuit breakers, over load relays, for millivolt drop measurement in fuse links, contacts, joints, cables etc.

A Test Set generally consist of a single phase, double wound loading transformer with four secondaries of equal rating and a single phase DIMMERSTAT (Continuously Variable Voltage Auto Transformer). The other components incorporated are:

- i) Input Terminals of 3 Pin Plug with 6' three core cable.
- ii) Input ON-OFF Switch
- iii) Input Fuses
- iv) mains ON Indicating Lamp
- v) Timer ON Indicating Lamp & Over Load ON Indicating.
- vi) Output Selector Switch to select either output ON/OFF.
- vii) Current Transformer (C.T.)
- viii) A.C. Ammeter to read the current in any one of the outputs.
- ix) 5A, 250V, 3Pin Socket with ON-OFF Switch for supply to the external timer circuit etc.

(C) INSTALLATION & TESTING:

After unpacking the unit, check it visually for any transit damage. The loose and/or broken components or connections, if any, may be corrected. Install the unit at a clean, well ventilated, cool and dry place.

Now connect the supply to the unit. Keep the Dimmerstat knob (brush) at 0% position, and output selector switch on the supply. The pilot lamp would glow indication that the unit is charged. Rotate the Dimmerstate knob slowly to 100% position. The voltage across output terminals would be about 265 Volts. Switch OFF the incoming supply and bring back the Dimmerstate knob to zero position.

(d) MAINTENANCE:

All the components used are specially selected, derated and fitted in robust construction to give a long trouble free service. It does not require any regular maintenance. The only moving part in the unit is carbon brush arm of Dimmerstat. In case of non availability of the output, the soundness of input fuses and carbon brush should be checked. If the carbon brush is found broken, it should be replaced by a spare carbon brush, provided on Dimmerstat brush arm (in air Dimmerstats only), or from the manufacturer. In case of major faults or for additional information, please contact the manufacturers.