



Earth Leakage Test Unit

Activated through door-mounted push button



About

The NewElec Earth Leakage Test Unit was developed to comply with the NRCS Department: Electrotechnical (VC 8035), 16-Oct-87, Sec 4.13 regulation. [Compulsory specification for earth leakage protection units]

The objective of this unit is to diminish the time taken to test the earth leakage device, utilizing an earth leakage testing tool and to add a measure of safety so that the test is carried out without the opening of the cubicle door. The NewElec Earth Leakage Test Unit actually creates a real-time earth leakage fault.

The physical ELTU Kit consists of a small bolt-down enclosure (60 x 60 x 20mm) with blue and red wires and yellow and red LEDs. Included in the kit is a 22 mm yellow Push Button, with a two pole Normally Open (N/O) contact block.

The schematic wiring diagram reflects a typical circuit that comprises of the NewElec GA Earth Leakage Relay. The unit is Universal and can be adapted for any other brand Earth Leakage device.

Typical Installation



TYPICAL INSTALLATION, SHOWING TEST BUTTON AND CURVE SELECTION.

Protection Features:

- Easy to install
- Injects a genuine real-time earth fault
- No need to open any MCC cubicle door
- Integrated safety thermistor prevents overheating of the unit itself
- Available for a wide range of earth leakage trip sensitivities (30, 250, 375, 500 and 1000 mA)
- Suitable for use in conjunction with any core operated earth leakage device
- Works with both Inverse Definite Minimum Time (IDMT) and instantaneous curves



GA Series Earth Leakage Protection Relay

Pioneers of the harmonic suppression circuit characteristics, the GA Earth Leakage Protection Relay enables more sensitive earth leakage protection of high kilowatt motors started direct-on-line, as well as variable speed drive applications without nuisance tripping.

The GA is available in diverse configuration options, including latched or non-latching main trip contact, fail-safe or non fail-safe options, as well as 110V / 220V or 380V / 525V A.C. auxiliary supply voltages.

The trip contact current rating is a sturdy 6A at 220V and 3A at 525V A.C. A latched 'contactor trip' change-over contact can only be reset by pressing the control panel-mounted pushbutton.

Sensitivities range from 30mA to 1000mA with user-selectable instantaneous or IDMT curve selection while using the same earth leakage core.



Features Include:

- Fail-safe or non fail-safe option
- Earth Leakage Protection
- Earth Fault Protection
- 110V / 220V A.C. or 380V / 525V A.C. supply
- Latching or non-latching trip contact
- Instantaneous or IDMT curve selection
- Latched 'contactor trip' C/O contact
- Harmonic Suppression
- Adaptor plate to fit 71 x 94mm cut-out