

EARTH LEAKAGE RELAY



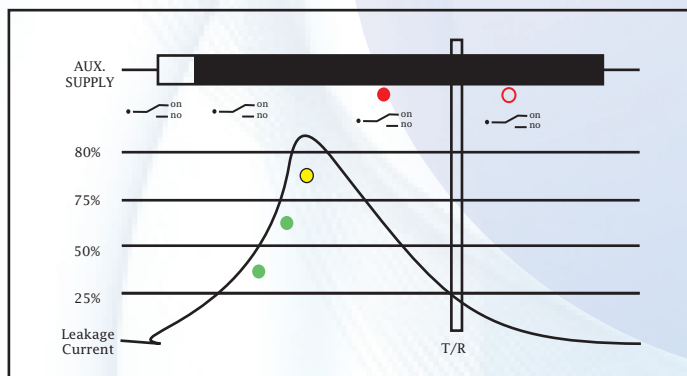
TECHNICAL SPECIFICATION

- ❖ **Auxiliary Supply**
 - 220-240 VAC @ 50/60 Hz.
- ❖ **Power Consumption**
 - 5VA
- ❖ **LED Indication**
 - ❖ **RED**
 - Power Presence
 - ❖ **RED**
 - T Unit under Trip state.
 - ❖ **YELLOW**
 - Indicates 75 % leakage current.
 - ❖ **GREEN**
 - Indicates 50 % leakage current.
 - ❖ **GREEN**
 - Indicates 25 % leakage current.
- ❖ **Monitored Leakage Current**
 - Upto 30A(Through external toroid of 1000:1 ratio)
- ❖ **Sensitivity Adjustment($I\Delta n$)**
 - 30,100,300,500 mA, 1, 3, 5, 10, 20, 30 A
- ❖ **Trip Level**
 - 80% of $I\Delta n$
- ❖ **Trip Time Delay Adjustment(Δt)**
 - 0,.15,.25,.5,1,2,3,5,7.5,9
- ❖ **Output**
 - SPDT 5A@230 VAC
- ❖ **Operating Conditions**
- ❖ **Ambient Temperature**
 - -20 C to +55 C
- ❖ **Relative Humidity**
 - +95%
- Mounting**
 - TS 35 DIN Rail
- ❖ **Connection**
 - Screw Clamp Suitable for 2.5 Sq. mm.

FEATURES

- ❖ 30 mm Slim Polycarbonate DIN Rail Mounted Enclosure.
- ❖ Versatile Input that can sense 30 mA to 30 A.
- ❖ PE-ELR-30 monitors & detect true RMS earth leakage currents using separate Core Balance Current Transformer.
- ❖ Distinct LEDs indicates leakage current magnitude.
- ❖ Adjustable sensitivity ($I\Delta n$) and Trip Time Delay(Δt) - instantaneous to 10 Secs.
- ❖ Single Trip / Reset Button.
- ❖ Potential free output on tripping

FUNCTIONAL DIAGRAM

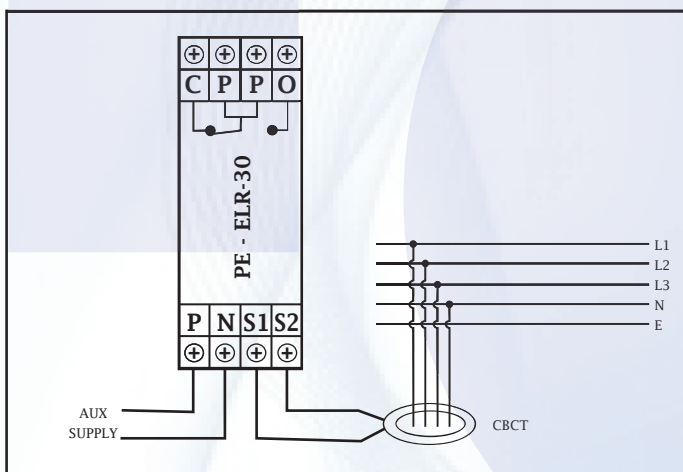


INSTALLATION



1. Before Installation of PE-ELR-30 ensure that supply line is isolated and there is not electrical hazard involved.
2. Connect the PE-ELR-30 as shown in connection diagram below.
3. Before powering up ensure that the supply is between 220 - 240 VAC with frequency 50/60 Hz.
4. Apply the power by turning on the isolation switch at the installation site. As the power supply is turned ON the RED LED will glow indicating the power supply presence.
5. After initial delay of 1 Sec., PE-ELR-30 will start monitoring the leakage current from the Core Balance Current Transformers.
6. PE-ELR-30 indicates 25% (GREEN LED), 50% (GREEN LED), 75%(YELLOW LED) of leakage current with respect to setting $I\Delta n$.
7. PE-ELR-30 is factory set to trip at 80% of $I\Delta n$. This is indicated by T (RED LED).
8. On tripping the potential free contact will operate which inturn can be used to trip the main breaker.
9. To check the interlocking the unit can simulate the fault by pressing T/R. When pressed once the unit will TRIP. Pressing it again will reset the unit.

CONNECTION DIAGRAM



MOUNTING DETAILS

