



96 x 96mm

## Features :

- Leakage current monitoring in 1Ø and 3Ø systems
- CBCT connection detection
- User selectable Power ON delay, trip time delay and recovery time delay
- Adjustable switching hysteresis
- Test and reset function via front / remote
- Pre-alarm indication selectable
- Test & reset via front/remote

### Display Specifications

|             |                                |
|-------------|--------------------------------|
| Display     | 3 Digits 7 Segment LED Display |
| No. of LED  | 2                              |
| No. of Keys | 3                              |

### LED Indication Chart

| Condition  | 'mA' LED | 'R' LED  |
|------------|----------|----------|
| No Fault   | OFF*     | OFF      |
| Trip       | OFF*     | ON       |
| CBCT Error | OFF*     | ON       |
| Pre-alarm  | OFF*     | Blinking |

\*\*:\* : 'ON' only when 33mA / 550mA range is selected

### Input Specifications

| Functions                  |   |
|----------------------------|---|
| Measurements               | Earth Leakage Current Monitoring (via external CBCT)  |
| Time Settings              | Power ON delay, Trip time delay, Recovery time delay  |
| Latching                   | Selectable  |
| Reset                      | Auto / Manual (Selectable)  |
| Electrical Connection      | 1Ø - 2 wire, 3Ø - 4 wire, 3Ø - 3 wire   |
| Trip Settings              |   |
| Trip Leakage Current Range | 30mA - 30A  |
| Display Current Range      | 15mA - 33A  |
| Trip Time Settings         |   |
| Power ON Delay             | 1 - 999sec  |
| Trip Time Delay            | 0 - 999sec  |
| Recovery Time Delay        | 1 - 99min   |
| Response Time              | < 30ms (If trip current = 5 x set value & Instantaneous trip is ON)<br>< 50ms (If trip current = 1 x set value) |
| Hysteresis                 |   |
| Hysteresis                 | 5 to 40%  |
| Resolution                 |   |
| Current                    | 0.1mA, 1mA, 0.01A, 0.1A<br>(Depends on trip Setting)  |

### Accuracy

|         |                       |
|---------|-----------------------|
| Current | ±5% of Setting        |
| Time    | ±5% of Setting ±100ms |

### Output Specifications

|                        |  |
|------------------------|--|
| No. of Relays          | 1  |
| Type of Output (Relay) | 1 C/O (SPDT)   |
| Relay Rating           | NO / 5A@250V AC / 28V DC<br>NC / 3A@250V AC / 28V DC |

### Auxiliary Supply Specifications

|                   |                   |
|-------------------|-------------------|
| Supply Voltage    | 90 - 270V AC / DC |
| Frequency         | 50 - 60Hz         |
| Power Consumption | 4VA max           |

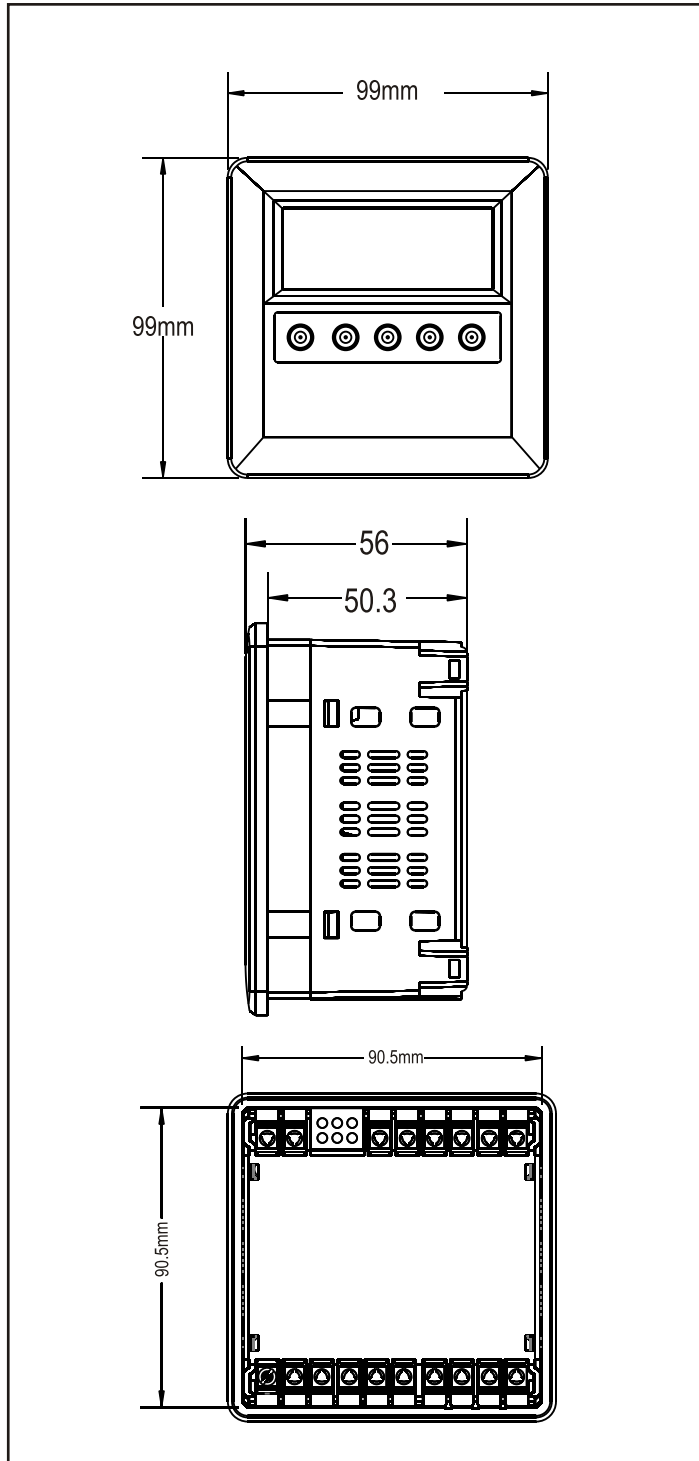
### Environmental Specifications

|                              |   |
|------------------------------|---|
| Temperature                  | Operating Temperature : 0° to 55°C<br>Storage Temperature : -20° to +70°C |
| Humidity (non-condensing)    | 95% RH  |
| Pollution Degree             |   |
| For PCB                      | 2   |
| For Product                  | 3   |
| Degree of Protection Devices | IP20  |

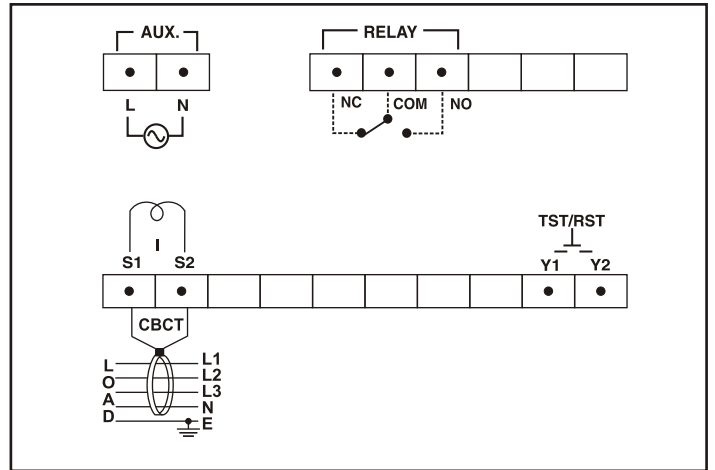
### Mechanical Specifications

|                         |               |
|-------------------------|---------------|
| Mounting                | Panel Mount   |
| Size                    | 96 x 96mm     |
| Weight                  | 250gms approx |
| Screw Tightening Torque | 0.5 NM        |

Dimensions



Terminal connections



Ordering information

| Product code | Supply Voltage    | Certification |
|--------------|-------------------|---------------|
| ELR-341-1    | 90 - 270V AC / DC | —             |

Accessories

| Product code | Inner Diameter | Turns Ratio |
|--------------|----------------|-------------|
| CBCT-35-1    | 35mm           | 1000:1      |
| CBCT-70-1    | 70mm           | 1000:1      |
| CBCT-120-1   | 120mm          | 1000:1      |
| CBCT-210-1   | 210mm          | 1000:1      |
| CBCT-310-1   | 310mm          | 1000:1      |