

SAHYADRI ELECTRO CONTROLS (I) PVT. LTD.











EARTH LEAKAGE RELAY WITH CBCT

(TYPE: SRC 100E)

10, VINAY COMPLEX, 1ST CROSS, RAJGOPAL NAGAR MAIN ROAD, GANAPATHI NAGAR,
PEENYA III PHASE, BANGALORE – INDIA - 560058

Mail: mkt@secoindia.co.in & sales@secoindia.co.in, Web: www.secoindia.co.in

SAHYADRI (SECO) make Earth Leakage Relay with CBCT is designed with Microcontroller based advance technology to sense the leakage current from Insulation to ground through core balance current transformer(CBCT). When the earth leakage current is more than the set value, the output relay operates as per the set time delay. The output relay contacts are used for tripping. Output relays are self-resettable and Indications are hand resettable. This unit has application in LT panels with distribution of low load power.

Earth leakage relays play two very important roles in electrical system – protection of human beings from electrocution and safety from Fire. Leakage current though very small magnitude can wreak havoc in the installations. 'Short Circuit' is commonly attributed as the cause of electrical fires but actually in majority of the cases, it is the leakage current which is the primary cause of electrical fires. Earth leakage relays are used in conjunction with highly sensitive toroid CTs also known as CBCTs to perform the function of detecting these leakage currents and tripping the circuits before any mishap takes place.

FEATURES:-

- ➤ Microcontroller based design
- ➤ With Tape wound CT's
- ➤ Wide setting range
- > Test facility
- > Settings through Dip switches
- > Fault & Trip indications by LED
- ➤ 2 sets of output change over contacts
- ➤ 96 Sq. mm front Facia
- ➤ Low depth of 45 mm
- ➤ Suitable for flush mounting & projection mounting
- ➤ Poly carbonate front cover for protection

TYPES OF EARTH LEAKAGE RELAYS - AVAILABLE

| SI no. | Models - Current setting |
|--------|--------------------------|
| 01 | 0.5A to 8 Amps |
| 02 | 0.3 A to 3.0 Amps |
| 03 | 30 mA to 3 Amps |
| 04 | 30 mA & 100 mA |

TECHNICAL SPECIFICATIONS:-

Aux. Supply: 110V / 230V AC 50 hz (415V is on request)

> Current Setting range

a. 0.5A to 8 A

b. 0.3A to 3A

c. 30mA to 3A

d. 30mA & 100 mA

> Selectable Operating time: Inst. 1 to 8 Sec insteps of 1 Sec

➤ Output contact: 2 sets of change over contacts (NC-C-NO)

➤ Contact Rating: 10A@24V DC or 230V AC

➤ **Indications**: Healthy, Faulty & Trip indication

➤ Accuracy Operating value: +/- 3%

➤ Accuracy Operating Time: +/- 3%

▶ Burden on Aux. supply: < 2.5VA

> Front Facia: 96 x 96mm

➤ Panel Cutout: 92 x 92 mm

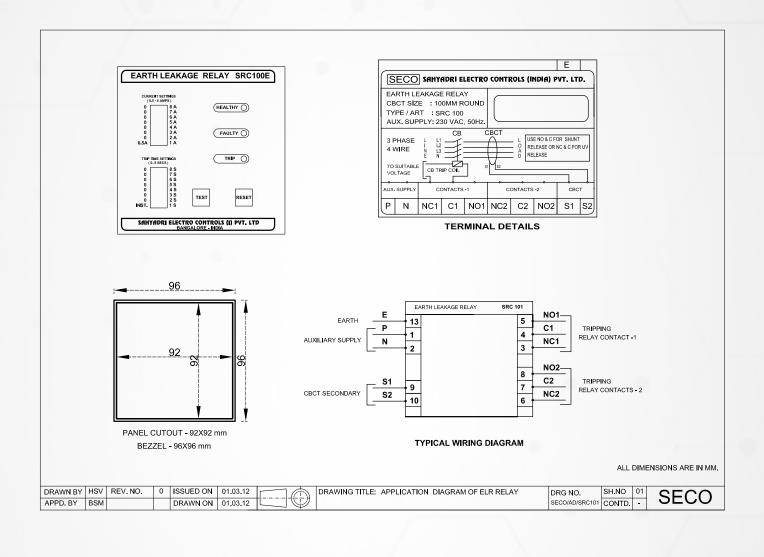
▶ Depth: 45mm

| SI no. | Available CBCT's Sizes |
|--------|------------------------|
| 01 | 100 mm |
| 02 | 150mm |
| 03 | 200 mm |
| 04 | 250 mm |
| 05 | 300 mm |
| 06 | Rectangular sizes |

Standard Compliance

Accuracy : IEC 60255-3Insulation: IEC 60255-5

WIRING AND PANEL CUTOUT DRAWING



SIDE VIEW







SAHYADRI

ISO 9001:2015 Certified



No 10,Vinay Complex, 1st Cross, Rajgopal nagar Main Road, Ganapati Nagar, Peenya 3rd Phase, Bangalore-560058

 $080\text{-}4149\ 2637\ /\ +91\ 9035048537\ /\ +91\ 9448408537\ /\ +91\ 9980544028$

After Sales / Service: +91 9606040824

mkt@secoindia.co.in / sales@secoindia.co.in / manjunatha@secoindia.co.in