

# EARTH LEAKAGE RELAYS & CORE BALANCE CTs

# HOBUT

## DESCRIPTION

Variable Earth Leakage Relays in compact 35mm din rail mounting cases for use on 3 phase electrical systems.

## APPLICATION

To monitor earth leakage current and to operate an associated relay at a preset current. May be used to shut down a system or operate an alarm under fault conditions.



# CE



## PRODUCT

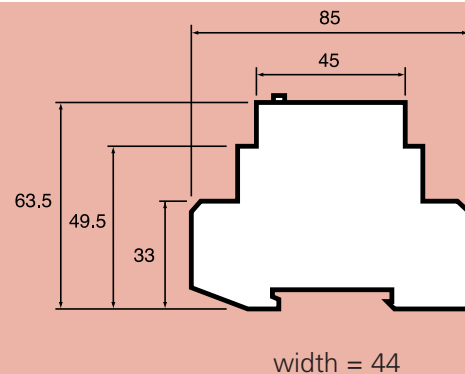
Part No.	Sensitivity	Operation Time
RCR-V30	30mA-30A	0-10 seconds

Ordering information required:

Supply Voltage: 24V AC or 115/230V AC or 400V AC or 12-125V DC or 10-60V DC

Frequency: 50/60Hz or 400Hz

## DIMENSIONS (mm)



ELR's are fitted with test and reset buttons. Pressing the test button allows a fault to be simulated and the output relays operate accordingly. Pressing the reset button after a fault occurs restores the unit back to its normal operation. A red LED light will illuminate after the unit trips due to an excessive fault current.

## SPECIFICATIONS

**Supply Voltage (Un):** 24, 115/230, 400V AC (85-115%)  
12-125V DC (85-110%)  
10-60V DC(90-110%)

**Power Consumption:** 6VA

**Ambient Temperature:** -20 to +55°C

**Relative Humidity:** +95%

**Housing:** UL94VO Flame Retardant

**Weight:** 200g

**Mounting:** 35mm Din Rail

**Terminal Conductor:** ≤ 2.5mm<sup>2</sup> stranded  
≤ 4mm<sup>2</sup> solid

**Output:** 1 x SPNO relay  
1 x SPDT relay

**Terminal Protection:** IP20

**Approvals:** IEC 60755, 60947, 62020, 61543

### N.B.

210mm toroids should not be used for sensitivity settings of less than 300mA.

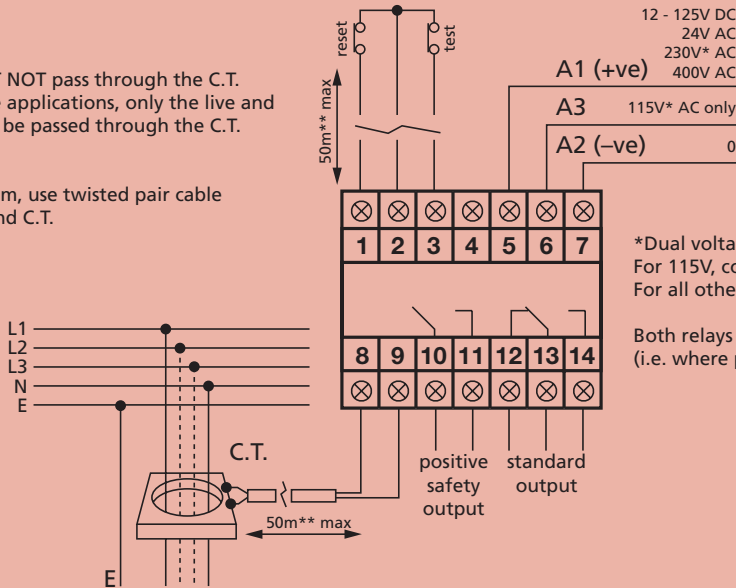
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## CONNECTION DIAGRAM

The Earth **MUST NOT** pass through the C.T.  
For single phase applications, only the live and neutral need to be passed through the C.T.

**\*\*Cabling:**  
For distances >1m, use twisted pair cable between unit and C.T.



\*Dual voltage only available as 115V/230V AC.  
For 115V, connect across terminals 6 and 7  
For all other voltages, connect across terminals 5 and 7.

Both relays are shown in the de-energised state  
(i.e. where power is not present on the supply terminals)

## CORE BALANCE CTs

### DESCRIPTION

A range of moulded case core balance CTs available with various internal diameters, also referred to as zero phase CTs. The products are compact in design and supplied complete with inbuilt mounting feet.

### APPLICATION

Specifically designed for use with the HOBUT range of Earth Leakage Relays. Specification of tripping current is not required as this is set automatically by the relay.



## RANGE

Part No.	Internal Diameter
CTB 35	35mm
CTB 70	70mm
CTB 120	120mm
CTB 210	210mm

## SPECIFICATIONS

- Conforms to: IEC44-1, IEC185 & BS7676
- Rated System Voltage: 720V AC
- Insulation Level: 3kV AC
- Frequency Range: 50-60Hz
- Terminals: combination screws, wire protected
- Terminal Conductor:  $\leq 2.5\text{mm}^2$  wire

Our policy is one of continuous development and therefore specifications may change without notice.

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