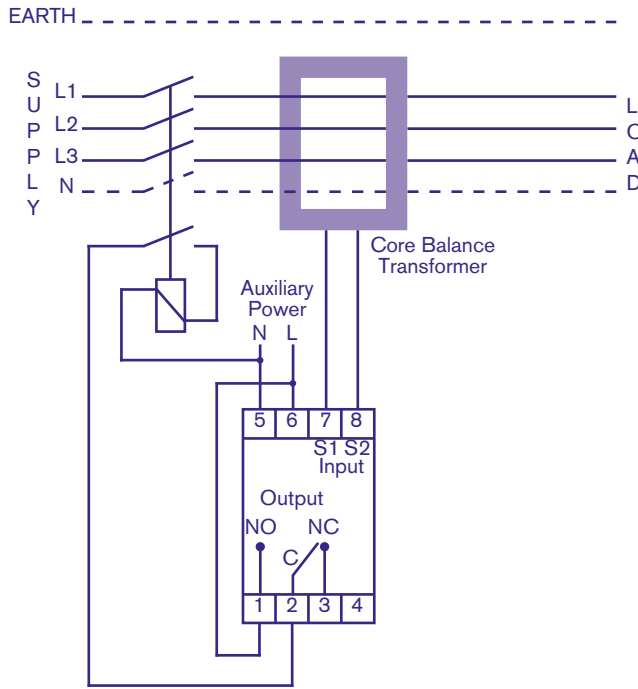
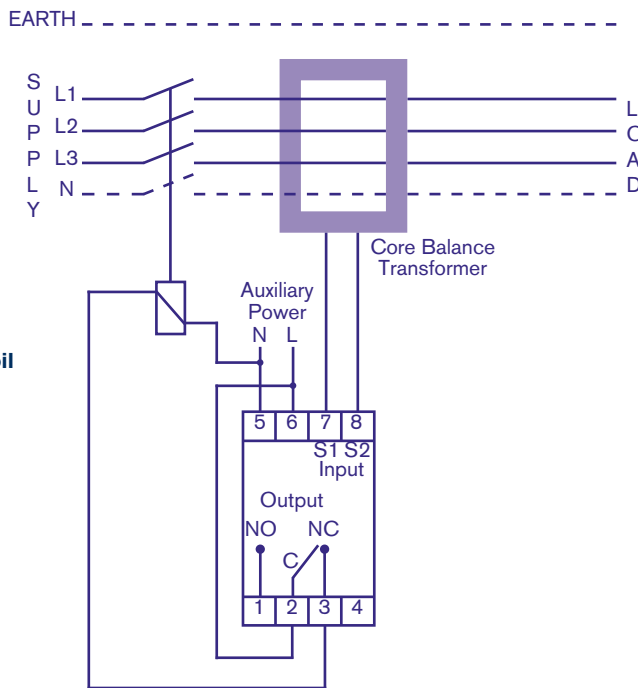


**Connections**



**Wiring connections for general MCB with shunt trip coil**



**Wiring connections for general MCB with undervoltage opening coil**

**Specification (Relay)**

**Trip Point,  $I_n$ :**

- 30mA (RN-0.03), 300mA (RN-0.3)
- 30mA to 5A (RN-R) - see table
- Reset value < 50% $I_n$

**Accuracy:**

- < 2%

**Time Delay:**

- RN-0.03 & RN-0.3 Instant (<40ms)
- RN-R 0.02 to 5 seconds - see table

**LED Indication:**

- Green: 'On', Red: 'Trip'

**Test Circuit:**

- Manual push button

**Relay Output:**

- Single pole changeover contact
- 5A at 250Vac (cos $\phi$ =1) or 30Vdc
- 3A at 250Vac (cos $\phi$ =0.4)

**Isolation:**

- 2.5kV rms 50Hz for 1 minute between input / output / auxiliary

**Power Supply:**

- 110 or 230Vac  $\pm$ 10% (4VA)

**Operating Temperature:**

- -5°C to 50°C

**Enclosure:**

- Mount: 35mm DIN rail (DIN-EN 50022)
- Screw type terminals (4mm<sup>2</sup> entry)

**Weight:**

- 200g

**Markings:**

- CE marked

**Specification (Core Balance Trans.)**

**Maximum Operating Voltage:**

- 720Vac

**Test Voltage:**

- 3kV rms 50Hz for 1 minute

**Calibration Temperature:**

- 20°C  $\pm$  5°C

**Operating Temperature:**

- -5 to 50°C

**Weight:**

- See table

**Markings:**

- CE marked

Specification subject to change without notice.

**RN-R Switch Settings**

Trip Point, $I_n$ (Amps)	Time Delay (seconds)
0.03 (30mA)	0.02 (20ms)
0.1 (100mA)	0.1 (100ms)
0.3 (300mA)	0.3 (300ms)
0.5 (500mA)	0.5 (500ms)
1	1
3	3
5	5

**LED Indication**

Power LED	Trip LED	Indication
On	Off	System OK
Blinking	On	Transformer continuity failure
On	On	Relay tripped - earth fault
On	Blinking every 2 sec	Current 25-50% of trip level (RN-R only)
On	Blinking every 1 sec	Current 50-75% of trip level (RN-R only)
On	Blinking every 0.5 sec	Current 75-100% of trip level (RN-R only)