



Features

- Numerical earth leakage relay
- Detection of no connection to ZCT
- Relay trip indicator
- Real-time leakage current display
- Leakage fault current recording
- . Standard DIN rail mounting
- Protection against nuisance tripping
- . Type A

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- For Tankless Multipoint Water Heater Application
- Ability to differentiate between overload tripping and earth leakage tripping

Technical Data

AUXILIARY SUPPLY DIN310C-230A Rated frequency

: 184~276 V AC : 50 or 60 Hz : 3 VA typical

PERFORMANCE

Setting accuracy :-20% to 0% Timing accuracy : ±5%

SETTING

VA rating

Sensitivity Time delay

OUTPUT CONTACTS

| Rated voltage | : 250 V AC |
|--------------------------|----------------------------------|
| Contact rating | : 5 A (NO) |
| | 3 A (NC) |
| Expected electrical life | : 100,000 operations at |
| | rated current |
| Expected | : 5 x 10 ⁶ operations |
| mechanical life | |

:10mA

: Instantaneous

RECORD Fault record

Storage

OUTPUTS Trip Contact

INDICATORS

Time delay Leakage

ZCT Fault

Real time leakage current

currents or "tSt" for manual test trip : Non-volatile memory

: 3 latest tripped fault

: Activated if relay tripped or ZCT fault

: Red indicator

- : 7- segment display and indicator
- : 7- segment display and red indicator
- : 7-segment display

ZERO-PHASE CURRENT TRANSFORMER

To operate with Mikro's ZCT that is included in the DIN310C bundle only (Note: Will not be able to operate properly with other Mikro's ZCT)

ENVIRONMENTAL CONDITIONS

| Temperature |
|-------------|
| Humidity |

- : -5°C to + 55°C : 56 days at 93% RH and
- 40°C non-condensing

MECHANICAL

| | Mounting | : Panel mounting |
|---|--------------------|-------------------|
| | Dimension (mm) | : 71(W) x 85(H) x |
| b | | 70(D) (Relay) |
| | Dimension (mm) | : 76(W) x 50(H) x |
| | | 27(D) (ZCT) |
| | Approximate weight | : 0.4 kg (Relay) |
| | Approximate weight | : 0.095 kg (ZCT) |

Earth Leakage Relay

- Approximate weight : 0.095 kg (ZCT)



Typical Application Diagram For DIN 310C

3-Phase 4-Wire System

Single Phase System AUX 1.

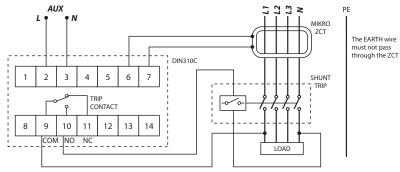
> 1 2 3 4 5 б 7

8 9 10 11

• N

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COM NO NC



--; DIN310C

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MIKRO ZCT

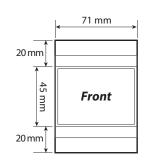
SHUNT TRIP

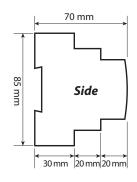
LOAD

The EARTH wire

must not pass through the ZCT

Case Dimensions



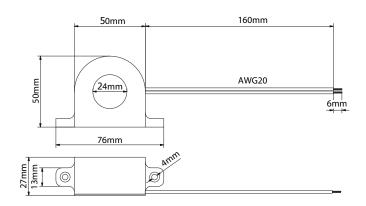


ZCT and Secondary Cable Dimensions

TRIP CONTACT

12

13 14

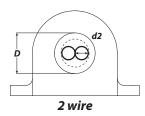


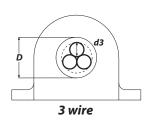
| | d2, 2 wire Up Until | d3, 3 wire Up Until | d4, 4 wire Up Until |
|---|-------------------------------|-------------------------------|-------------------------------|
| Diameter (mm) | 7 | 6.49 | 5.79 |
| Maximum Cable Cross-Sectional Area (mm²) | 35 | 25 | 25 |
| Maximum Current Carrying Capacity (A) | 125 | 89 | 89 |

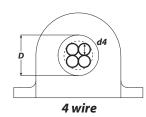
Note: Selection of cable is based on 300 / 500V or 600 / 1000V, single-core, PVC insulated, PVC sheathed unarmoured cable, enclosed in conduit on a wall

Ordering Information

MODEL DESCRIPTION DIN310C - 230A For 50Hz system, auxiliary voltage 230V AC







DIN310C