

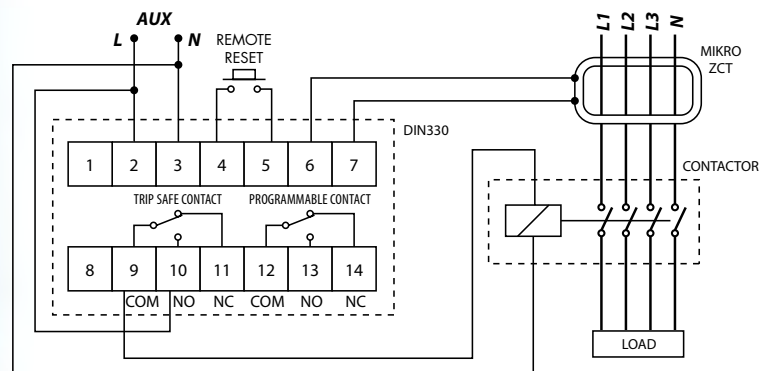


DIN330

Features

- Numerical self reclosing earth leakage relay
- Programmable current sensitivity and time delay
- Programmable dead time and number of shots
- Programmable permanent fault time and reclaim time
- Programmable lockout auto reset time
- Incorporated positive safety feature into trip contact
- One programmable contact for flexibility
- Detection of no connection to ZCT
- Relay trip indicator
- Relay alarm indicator
- Real-time leakage current display
- Leakage fault current recording
- Remote reset function
- Standard DIN rail mounting
- Protection against nuisance tripping
- Type A

TYPICAL APPLICATION DIAGRAM



- * The trip safe contact is activated (terminal 9-10 closed) when the relay is in normal power-up condition with the measured leakage current less than the sensitivity setting, $I_{\Delta n}$.

Technical Data

AUXILIARY SUPPLY

Model DIN330-240 A(6)	: 204 ~ 265 V AC
Rated frequency	: 50 or 60 Hz
VA rating	: 3 VA typical

SETTINGS

Sensitivity adjustment	: 30 mA, 50 mA, 0.10 A – 1.00 A (Step = 50 mA), 1.00 A – 10.0 A (Step = 1.00 A)
Time delay adjustment	: Instantaneous, 0.1s – 3.0s. Step = 0.10 sec.
Number of shots	: 1 - 30. Step = 1
Dead time	: 1 - 500 sec. Step = 1 sec.
Permanent fault time	: 0 - 500 sec. Step = 1 sec. 0 = Disable function
Reclaim time	: 0 - 500 minute. Step = 1 min. 0 = Disable function
Lockout auto reset time	: 0 - 200 hour. Step = 1 Hrs. 0 = Disable function
Programmable contact	: Option 1: CT Fault, Trip, Lockout or 50% alarm Option 2: CT Fault Option 3: Trip Option 4: Lockout Option 5: 50% Alarm Option 6: CT Fault or Lockout

CONTACTS

Contact arrangement	: Change-over
Contact rating	: 5 A, 250 V AC (cos θ = 1)
Contact material	: Silver alloy
Expected electrical life	: 100,000 operations at rated current
Expected mechanical life	: 5 x 10 ⁶ operations

RECORD

Fault record	: 3 latest tripped fault currents
Storage	: Non-volatile memory

INPUTS

Remote reset	: N.O. dry contact
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OUTPUTS

Trip safe contact	: Activated when the relay is in normal power-up condition with the measured leakage current less than the sensitivity setting, $I_{\Delta n}$.
Programmable contact	: Activated as to user setting

INDICATORS

50% pre-fault alarm	: Red indicator (Normal blink)
Time delay	: Red indicator (Fast blink)
Leakage trip	: 7-segment display and red indicator
Reclose lockout	: 7-segment display and red indicator
ZCT fault	: 7-segment display and red indicator
Real time leakage current	: 7-segment display

ZERO-PHASE CURRENT TRANSFORMER

To operate with Mikro's ZCT series of current transformer

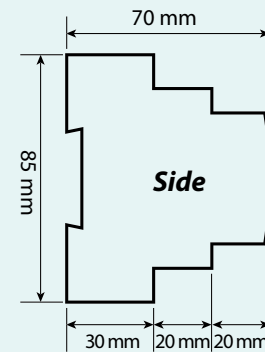
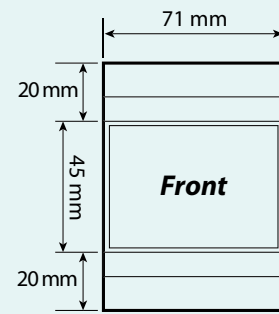
MECHANICAL

Mounting method	: Standard 35 mm din rail mounting
Approximate weight	: 0.38 kg (Excluding ZCT)

ENVIRONMENTAL CONDITIONS

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

CASE DIMENSIONS



Ordering Information

MODEL	DESCRIPTION
DIN330 - 240 A	For 50 Hz system, auxiliary voltage 240 V AC
DIN330 - 240 A6	For 60 Hz system, auxiliary voltage 240 V AC

