



NX330A

Features

- Numerical earth leakage relay
- Incorporated positive safety feature into trip contact
- One programmable contact for flexibility
- Detection of no connection to ZCT
- Relay trip / alarm indicator
- Real-time leakage current display
- Leakage fault current recording
- Remote reset function
- Standard DIN 96x96mm panel mounting
- Protected against nuisance tripping

Technical Data

AUXILIARY SUPPLY

Model NX330A-230A : 184~276 V AC
 Model NX330A-110A : 94~127 V AC
 Rated frequency : 50Hz
 VA rating : 3VA typical

PERFORMANCE

Setting accuracy : -15% to +0%
 Timing accuracy : ±5%

SETTING

Sensitivity adjustment : 30mA, 50mA,
 0.10~1.00A
 (Step=50mA)
 1.00~10.0A
 (Step=1.00A)

Time delay adjustment : Instantaneous,
 0.1~3.0sec (Step=0.1s)

Number of shots : 0~30 (Step=1, 0=Disable
 auto re-close function)

Dead time : 1~500sec (Step=1sec)
 Persistent fault time : 0~500sec (Step=1sec,
 0=Disable function)

Reclaim time : 0~500min (Step=1min,
 0=Disable function)

Lockout auto reset time : 0~200hour (Step=1Hr,
 0=Disable function)

Programmable : Option 0 = Disable
 contact
 Option 1 = All (Option 2 to 6)
 Option 2 = ZCT error
 Option 3 = Leakage trip,
 test trip,
 re-close lockout
 Option 4 = Re-close lockout
 Option 5 = Pre-fault alarm,
 leakage trip,
 test trip,
 re-close lockout
 Option 6 = Re-close lockout,
 ZCT error

RECORD

Fault record : 3 latest tripped fault
 currents or "tSt" for
 manual test trip

Storage : Non-volatile memory

INPUT

Remote reset : N.O. dry contact

OUTPUTS

Trip safe contact : Activated when the relay
 is in normal power-up
 condition with the
 measured leakage current
 less than 0.85 I_{Δn}.

Programmable contact: Activated according
 to user setting

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 mechanical life: 5 x 10⁶ operations

INDICATORS

Pre-fault alarm : Red indicator
 (Normal blink)

Time delay : Red indicator
 (Fast blink)

Leakage trip : 7-segment display
 and red indicator

Re-close lockout : 7-segment display
 and red indicator

ZCT connection error : 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

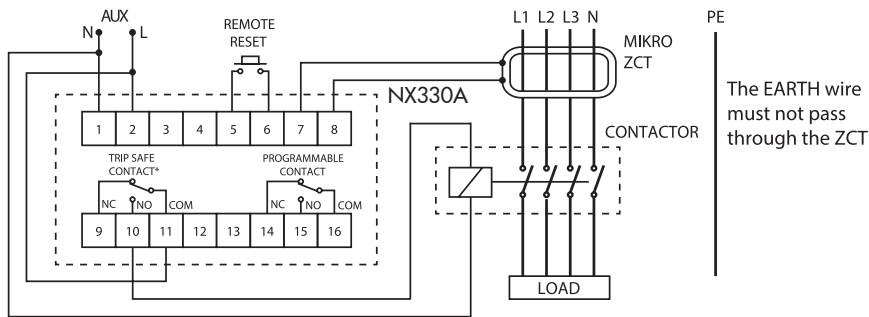
ENVIRONMENTAL CONDITIONS

Temperature : -10°C to 55°C
 Humidity : 5% to 95%,
 non-condensing

MECHANICAL

Mounting : Panel mounting
 Dimension (mm) : 96(w) x 96(h) x 90(d)
 Enclosure protection : IP54 at the panel
 Approximate weight : 0.6 kg (excluding ZCT)

Typical Application Diagram



* The trip safe contact is activated (terminal 10-11 closed) when the relay is in normal power-up condition with the measured leakage current less than $0.85 I_{\Delta n}$.

Ordering Information

MODEL	DESCRIPTION
NX330A-230A	For 50Hz system, auxiliary voltage 184~276 V AC
NX330A-110A	For 50Hz system, auxiliary voltage 94~127 V AC
NX330A-230A6	For 60Hz system, auxiliary voltage 184~276 V AC
NX330A-110A6	For 60Hz system, auxiliary voltage 94~127 V AC

Case Dimensions

