



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 : $\pm 5\%$

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 : Activated according to user setting contact

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

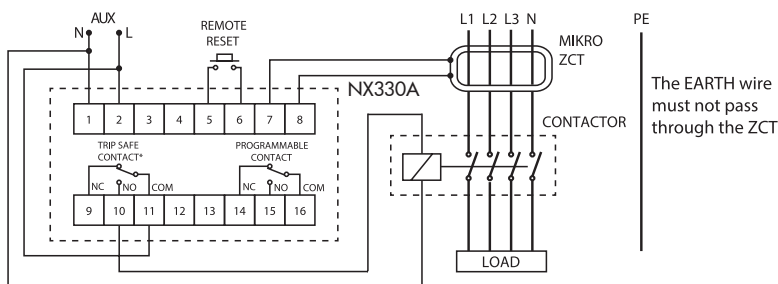
ENVIRONMENTAL CONDITIONS

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

