

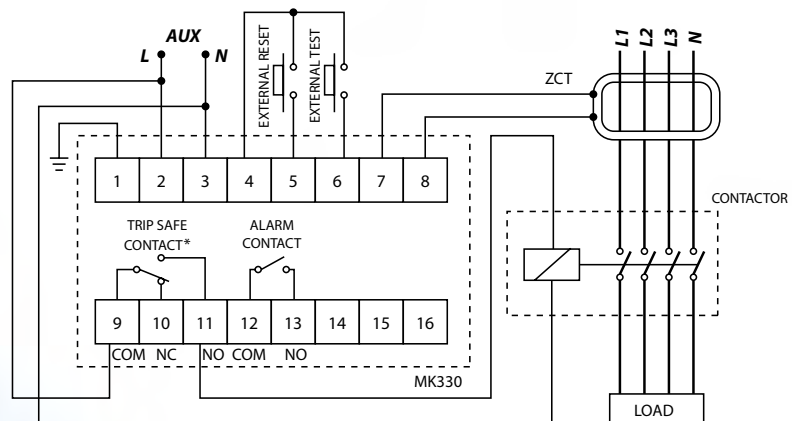


# MK330

## Features

- Numerical self-reclosing earth leakage relay
- Programmable current sensitivity and time delay
- Programmable number of reclosing
- Programmable time delay before reclosing
- Programmable automatic reset time
- Built-in digital harmonic filter
- Detection of no connection to current transformer
- External test and external reset of dry contact inputs
- Tripping contact output
- Alarm output
- Real-time leakage current display
- Relay tripped indicator
- Leakage current recording when tripped
- Complies with IEC 755 standard

## TYPICAL APPLICATION DIAGRAM



\* The trip safe contact is activated (terminal 9-11 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 MK330-240A (6)	: 198 ~ 265 V AC
Model MK330-110A (6)	: 94 ~ 127 V AC
Rated frequency	: 50 or 60 Hz
VA rating	: 3 VA typical

### SETTING RANGES

Sensitivity adjustment	: Range 1 is stepping from 0.03A→0.05A→0.10A→0.15A Range 2 is from 0.20A to 0.75 A in step of 0.05 A Range 3 is from 0.80A to 3.00A in step of 0.05 A
Delay time adjustment	: From 0.05 to 3.00 sec in step of 0.05 sec From 3.00 to 10.0 sec in step of 0.50 sec
Number of self-reclosing	: From 1 to 10 times in step of 1
Reclosing time delay	: From 1 to 999 sec in step of 1 sec
Automatic reset time	: From 1 to 999 min in step of 1 min

### CONTACTS

Contact arrangement	: Change-over
Contact rating	: 5 A, 250 V AC ( $\cos\phi = 1$ ) for tripping contact : 5 A, 250 V AC ( $\cos\phi = 1$ ) for alarm contact
Contact material	: Silver alloy
Expected electrical life	: 100,000 operations at rated current
Expected mechanical life	: $5 \times 10^6$ operations

### INPUTS

External Test / Reset Inputs	: N.O. dry contact
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### INDICATORS

Auxiliary supply	: Green indicator
Time delay	: Red indicator
Trip	: 7-segment display and red indicators
Real-time leakage current	: 7-segment display

### ZERO - PHASE CURRENT TRANSFORMER

To operate with Mikro's ZCT series of current transformer

### MECHANICAL

Mounting method	: Panel mounting
Front panel	: Standard DIN 96mm x 96mm
Approximate weight	: 0.8 kg ( excluding ZCT )

### ENVIRONMENTAL CONDITIONS

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

## Ordering Information

MODEL	DESCRIPTION
MK330 - 240A	For 50 Hz system, auxiliary voltage 240 V AC
MK330 - 110A	For 50 Hz system, auxiliary voltage 110 V AC
MK330 - 240A6	For 60 Hz system, auxiliary voltage 240 V AC
MK330 - 110A6	For 60 Hz system, auxiliary voltage 110 V AC

## CASE DIMENSIONS

