

MK300/300E



MK300



MK300E

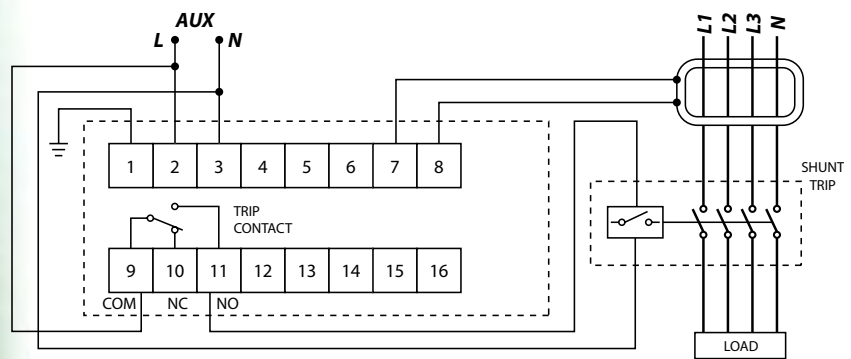
Features for MK300/300E

- Numerical earth leakage relay
- Programmable current sensitivity and time delay
- Built-in digital harmonic filter
- Detection of no connection to current transformer
- Real-time leakage current display
- Relay tripped indicator
- Leakage current recording when tripped
- Complies with IEC755 standard

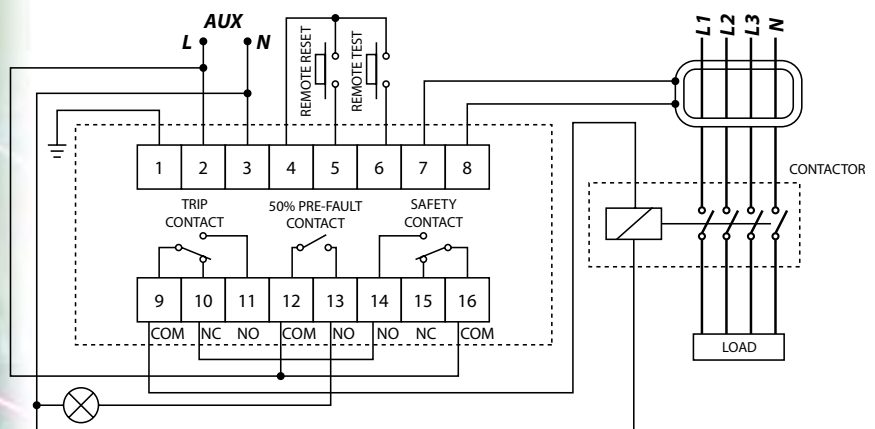
Features for MK300E only

- 50% pre-fault output contact
- Positive safety output contact
- Remote test and remote reset functions

TYPICAL APPLICATION DIAGRAM For MK300



TYPICAL APPLICATION DIAGRAM For MK300E



Technical Data

AUXILIARY SUPPLY

Model MK300 / 300E -240A (6) : 198 ~ 265 V AC
 Model MK300 / 300E -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 0.75A in step of 0.05A
 Range 3 is from 0.80A to 3.00A in step of 0.05A
 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

CONTACTS

Contact arrangement : Change-over
 Contact rating : 5A, 250V AC (cosφ = 1) for tripping contact
 : 5A, 250V AC (cosφ = 1) for safety contact *
 : 5A, 250V AC (cosφ = 1) for 50% pre-fault contact *
 Contact material : Silver alloy
 Expected electrical life : 100,000 operations at rated current
 Expected mechanical life : 5 x 10⁶ operations

INPUTS

Remote Test / Reset Inputs : N.O. dry contact *

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

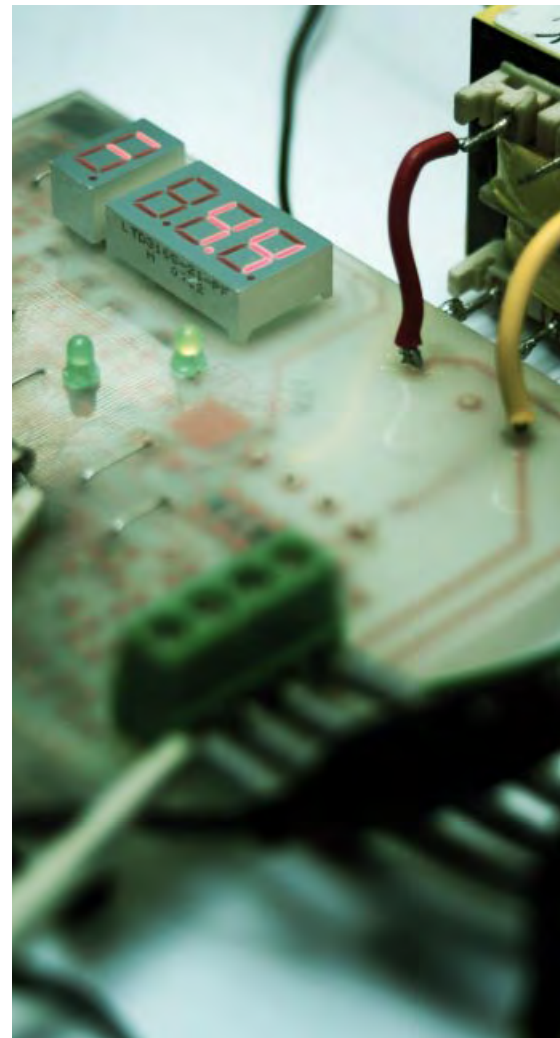
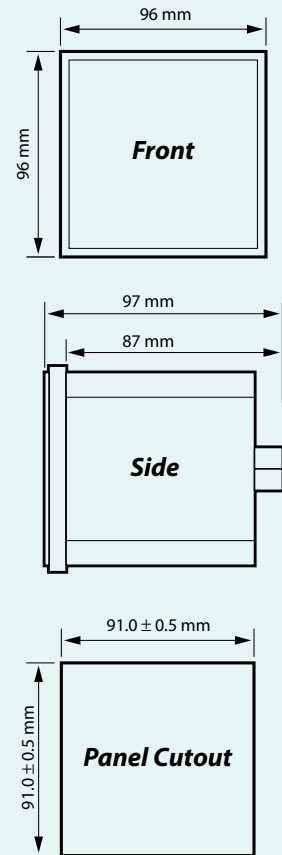
Mounting method : Panel mounting
 Front panel : Standard DIN 96mm x 96mm
 Approximate weight : 0.8 kg (excluding ZCT)

ENVIRONMENTAL CONDITIONS

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

* Applicable to MK 300E series only

CASE DIMENSIONS



Ordering Information

MODEL	DESCRIPTION
MK300 - 240A	For 50 Hz system, auxiliary voltage 240 V AC
MK300 - 110A	For 50 Hz system, auxiliary voltage 110 V AC
MK300E - 240A	For 50 Hz system, auxiliary voltage 240 V AC
MK300E - 110A	For 50 Hz system, auxiliary voltage 110 V AC
MK300 - 240A6	For 60 Hz system, auxiliary voltage 240 V AC
MK300 - 110A6	For 60 Hz system, auxiliary voltage 110 V AC
MK300E - 240A6	For 60 Hz system, auxiliary voltage 240 V AC
MK300E - 110A6	For 60 Hz system, auxiliary voltage 110 V AC