

MK300A / 300EA



MK300A



MK300EA

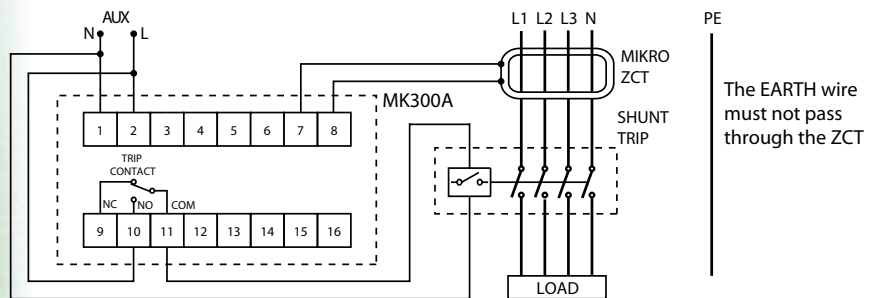
Features for MK300A / 300EA

- Numerical earth leakage relay
- Programmable current sensitivity and time delay
- Detection of no connection to ZCT
- Relay trip indicator
- Relay alarm indicator
- Real-time leakage current display
- 50% pre-fault indicator
- Leakage fault current recording
- Standard DIN 96x96mm panel mounting
- Protected against nuisance tripping

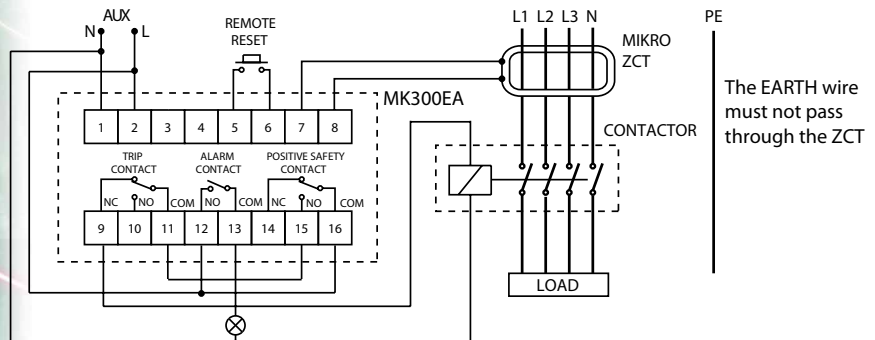
Features for MK300EA only

- Positive safety output contact
- Pre-fault alarm contact
- Remote reset function

TYPICAL APPLICATION DIAGRAM FOR MK300A



TYPICAL APPLICATION DIAGRAM FOR MK300EA



Technical Data

AUXILIARY SUPPLY

Model MK300A / 300EA -230A	: 184 ~ 276 V AC
Model MK300A / 300EA -110A	: 94 ~ 127 V AC
Rated frequency	: 50 Hz
VA rating	: 3 VA typical

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)

PERFORMANCE

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

RECORD

Fault record	: 3 latest tripped fault currents or "tSt" for manual test trip
Storage	: Non-volatile memory

INPUT

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

Trip contact	: Activated during leakage trip, manual test trip or ZCT connection error
Positive safety contact*	: Activated when power-up and relay function correctly
Alarm contact*	: Activated when measured leakage current exceeded 50% of $I_{\Delta n}$.

CONTACTS

Contact arrangement	: Change-over
Contact rating	: 5A(NO) / 3A(NC) / 250V AC1
Expected electrical life	: 10,000 operations at rated current
Expected mechanical life	: 5×10^6 operations

INDICATORS

Pre-fault alarm	: Red indicator (Normal blink)
Time delay	: Red indicator (Fast blink)
Leakage trip	: 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

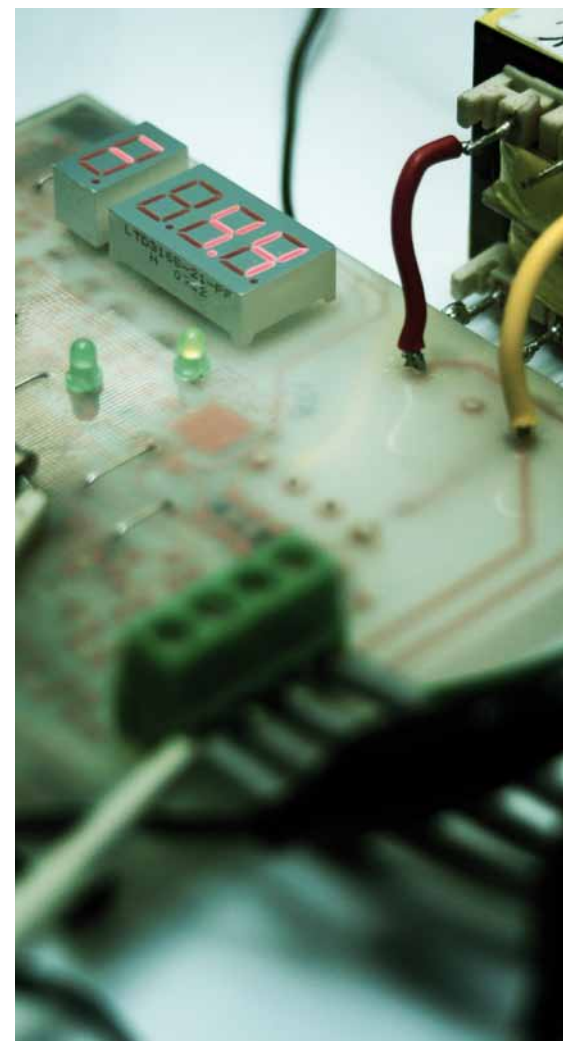
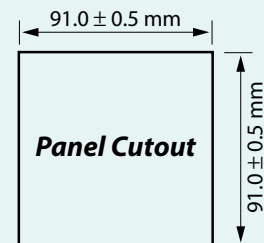
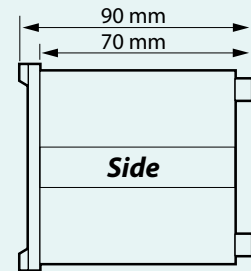
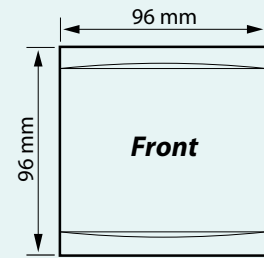
To operate with Mikro's ZCT series of current transformer

MECHANICAL

Mounting method	: Panel mounting
Front panel	: Standard DIN 96mm x 96mm
Approximate weight	: 0.58kg (excluding ZCT)

* Applicable to MK 300EA series only

CASE DIMENSIONS



Ordering Information

MODEL	DESCRIPTION
MK300A - 230A	For 50Hz system, auxiliary voltage 184~276VAC
MK300EA - 230A	For 50Hz system, auxiliary voltage 184~276VAC
MK300A - 110A	For 50Hz system, auxiliary voltage 94~127VAC
MK300EA - 110A	For 50Hz system, auxiliary voltage 94~127VAC
MK300A - 230A6	For 60Hz system, auxiliary voltage 184~276VAC
MK300EA - 230A6	For 60Hz system, auxiliary voltage 184~276VAC
MK300A - 110A6	For 60Hz system, auxiliary voltage 94~127VAC
MK300EA - 110A6	For 60Hz system, auxiliary voltage 94~127VAC