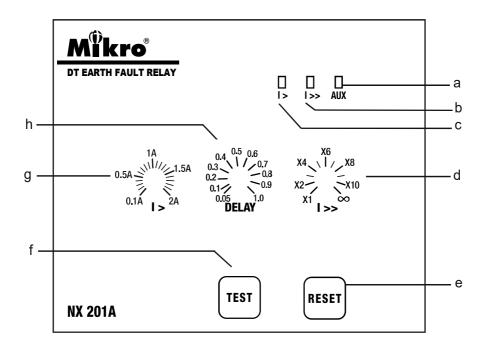
NX201A DT Earth Fault Relay User's Guide

A BRIEF OVERVIEW



- a Auxiliary power supply indicator
- b High-set start/trip status indicator
- c Low-set start/trip status indicator
- d Earth-fault high-set adjustment
- e Trip reset button
- f Test button
- g Earth-fault low-set adjustment
- h Delay time adjustment

TECHNICAL DATA

1. Current and Time Adjustments

Earth-fault Low-set Current (I>) Adjustment

- This adjustment is for setting the minimum earth-fault for tripping with time delay.
- The setting range is from 0.1A to 2A.

Earth-fault High-set Current (I>>) Adjustment

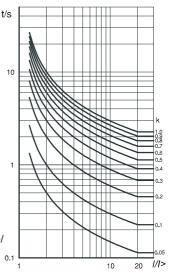
- This adjustment is for setting the instantaneous tripping current due to an earth-fault.
- The setting range is from 1x to 10x of the earth-fault low-set setting value.

$$|>> = a \times |>,$$
 $a = 1 \text{ to } 10$

• This high-set feature can be disabled by setting the tripping current to infinity (∞)

Time Multiplier (TM) Adjustment

- The time multiplier is for setting the normal inverse time/ current characteristic (IDMT) as according to BS142.
- The setting range is from 0.05 to 1.0.



IDMT Normal Inverse Curve

2. Light Indicators

The light indicators display the status of the system.

Indicator			
AUX	>	 >>	Status
Off	Off	Off	No auxiliary power supply.
On	Off	Off	System normal mode. No tripping.
On	On	Off	Earth-fault low-set start.
On	Blink	Off	Earth-fault low-set tripped.
On	Off	On	Earth-fault high-set start.
On	Off	Blink	Earth-fault high-set tripped.

3. Push Buttons

Reset Button

- The reset button is for resetting the light indicators (I> or I>>) after an earth-fault tripping has occured.
- To reset, press the reset button once.

Test Button

- Test button is for checking the relay operation.
- Press and hold test button for 3 seconds to simulate an earth-fault low-set and high-set trip condition.
- Relay will trip and indicators I> and I>> turn ON when the test button is pressed.
- · To reset, press the reset button once.

4. Trip Contacts

There is one set of tripping contacts namely, R1.

R1 - Manual Reset Type

This contact (R1) is activated during an earth-fault trip. the contacts remain
activated regardless of the removal of fault current. This relay can only be reset
by pressing the "RESET" button.

5. Electrical Specification

Auxiliary Supply

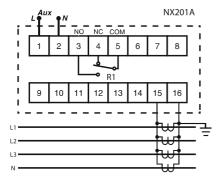
Auxilially Supply	
NX201A-240A	198~265 VAC
NX201A-110A	94~127 VAC
Supply frequency	50Hz
VA rating	3 VA typical
Trip Contact	
Rated Voltage	250 VAC
Continuous carry	
Expected electrical life	,
Expected mechanical life	•
Exposiod modification inc	o milion operatione
Setting Ranges	
Low-set (I>)	0.1A to 2.0A
· /	2% to 40%
Low-set delay time (DELAY)	0.05 sec to 1.0 sec
High-set (I>>)	
High-set delay time (t>>)	instantaneous
Indicators	
Auxiliary supply	Green LED indicator
Pick-up	
Trip	Red LED indicator

6. Mechanical

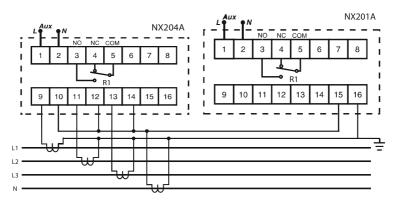
Mounting	Panel mounting
Front panel	Standard DIN 96x96 mm
Approximate weight	0.6 kg

7. Connection Diagram

a) Earth fault relay



a) Combined overcurrent and earth fault relays



8. Case Dimensions

