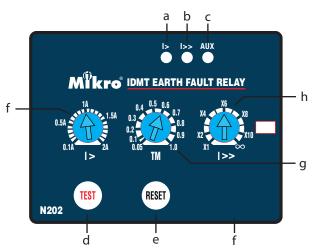
N202 IDMT Earth-Fault Relay User's Guide



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

TECHNICAL DATA

1. Current and Time Adjustments

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

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

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

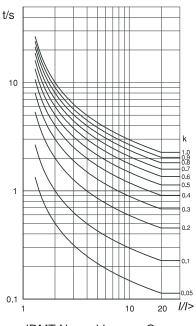
- This adjustment is for setting the instantaneous tripping current due to an earth-fault.
- The setting range is between 1x to 10x of the earth-fault low-set setting value.

$$I>> = a \times I>$$
 (a= 1 to 10)

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

Time Delay (TM) Adjustment

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



IDMT Normal Inverse Curve

2. Light Indicators

The light indicators display the status of the system.

Indicator			Status
AUX	l>	l>>	Status
Off	Off	Off	No auxiliary power supply.
On	Off	Off	System normal mode. No tripping.
On	Blink	Off	Earth-fault low-set start.
On	On	Off	Earth-fault low-set tripped.
On	Off	Blink	Earth-fault high-set start.
On	Off	On	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.
- Push and hold the test button, I> and I>> LEDs start blinking then LEDs turn On and relay contacts will be activated after 3s.

4. Trip Contacts

There are two set of tripping contacts namely, R1 and R2.

R1,R2 - Manual Reset Type

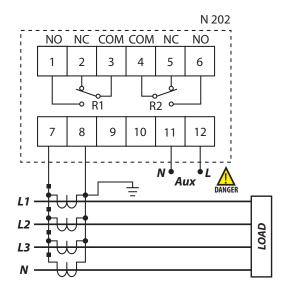
-These contacts is activated during an earth-fault trip. The contacts remain activeted regardless of the removal of fault current. This relay can only be reset by pressing the "RESET" button.

5. Electrical Specification

Auxiliary Supply N202-240ADSupply frequencyVA rating	
Trip Contact Rated Voltage Continuous carry Expected electrical life Expected mechanical life	5A (cos φ = 1.0) 100,000 operations
Setting Ranges Low-set (I>) Low-set delay time (TM) High-set (I>>) High-set delay time (t>>)	l> to 10x l> or disable
Indicators Auxiliary supply Pick-up Trip	Red LED indicator
6. Mechanical Mounting Front panel	_

Approximate weight...... 0.6 kg

7. Connection Diagram



8. Case Dimensions

