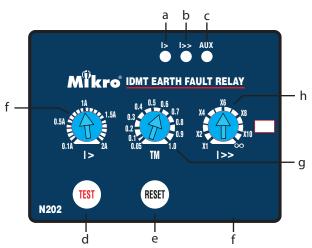
N202 IDMT Earth-Fault Relay User's Guide



- 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

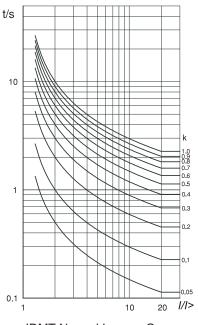
- This adjustment is for setting the instantaneous tripping current due to an earth-fault.
- The setting range is between 1x to 10x of the earth-fault low-set setting value.

$$1>> = a \times 1>$$
 (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

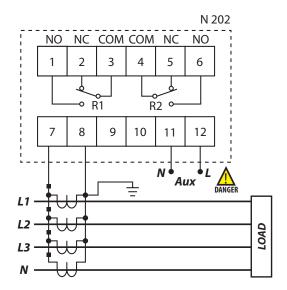
-These contacts is activated during an earth-fault trip. The contacts remain activeted regardless of the removal of fault current. This relay can only be reset by pressing the "RESET" button.

5. Electrical Specification

Supply frequency				
VA rating	3 VA typical			
Trip Contact	250.44.5			
Rated Voltage				
Continuous carry				
Expected electrical life	•			
Expected mechanical life	5 million operations			
Setting Ranges Low-set (I>)Low-set delay time (TM)High-set (I>>)High-set delay time (t>>)	0.05 to 1.0 I> to 10x I> or disable			
Indicators	Croon I ED indicator			
Auxiliary supply Pick-up				
Trip				
πρ	Neu LED Indicator			
6. Mechanical				
Mounting	Panel mounting			
Front panel72x72 mm				

Approximate weight...... 0.6 kg

7. Connection Diagram



8. Case Dimensions

