

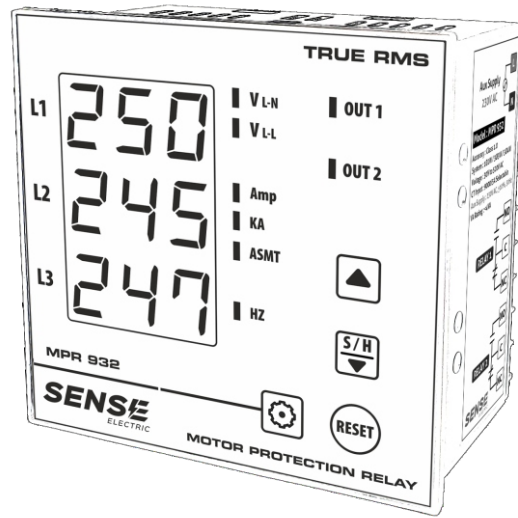
## Three Phase Motor Protection Relay

### Features

- ➔ Compact Design with Low Back Depth 50mm
- ➔ True RMS Measurement
- ➔ User Friendly & Easy to Program
- ➔ 3 Line Ultra Bright Display with RED and WHITE color option

### Tripping Parameters

- ➔ Over / Under Voltage
- ➔ Over / Under Current
- ➔ Assymetry for Current & Voltage
- ➔ Over / Under Frequency
- ➔ Phase Loss
- ➔ Phase Sequence
- ➔ Short Circuit
- ➔ Lock Rotor Point



### Display Specifications

Display	Three Row, 3 Digit Seven Segment
Display Color	White & Red
Digit Height	0.56 inch (14.22mm)
LED Indications	V <sub>L-N</sub> , V <sub>L-L</sub> , A, K <sub>A</sub> , ASMT, Hz Output 1 & Output 2
Keys	Set, Reset Up / Scroll, Down / Scroll & Hold

### Input Specifications

Electrical Connection	1Ø-2W, 3Ø-3W, 3Ø-4W AC
Input Voltage	30V to 500V AC (L-N) 50V to 520V AC (L-L)
Input Current Rated	Nominal 5A (Min-50mA, Max-5.5A)
Continuous Max. Input Rating	5.5A
Resolution	0.01, 0.1, 1A (Depending upon CT primary)
Frequency	45.0 to 65.0 Hz
Accuracy	Class 1.0

### Settable Parameters

CT Primary Setting	5 - 6000A value increment in steps of 5A
CT Secondary Setting	5A Fixed

### Supply Specifications

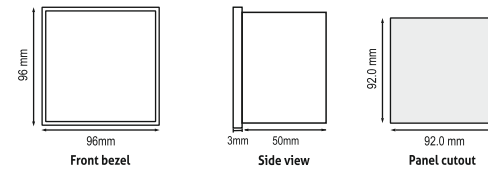
Auxiliary Supply	100-270V AC, ±10% (50 Hz)
Power Consumption	<4VA max

### Environmental Specifications

Temperature	Operating: 0°C to +55° C Storage: 0° C to +75° C
Humidity (non-condensing)	Upto 85% RH

### Mechanical Specifications

#### Panel Cut - Out for MPR-932



#### For installing the meter

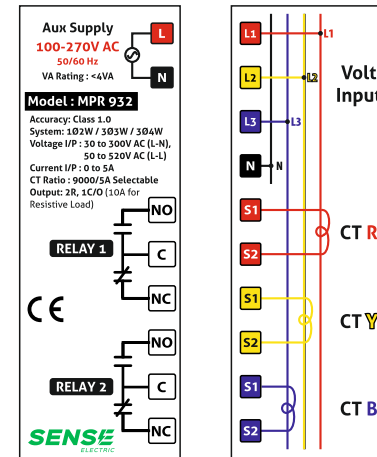
1. Prepare the panel cutout with proper dimensions as shown above.
2. Push the meter into the panel cutout. Secure the meter in it's place by fitting the clamp on the rear side. Fit the clamps on both the sides in diagonally opposite location for optimum fitting.
3. For proper sealing, tighten the screws evenly with required torque.

#### Terminal screw tightening torque:

0.68 Nm to 0.79 Nm (6.018In-Lb to 6.992 In-Lb)  
Screw clamp tightening torque: 0.1N-m (0.885 Lb-inch)

Certifications: **CE**

### Terminal Connections



### SAFETY PRECAUTIONS:

All safety related conditions, symbols and instruction that appear in this operating manual or on the equipment must be strictly followed to ensure the safety of the operating personnel as well as the instrument.

If the equipment is not used in a manner specified by the manufacturer it might impair the protection provided by the equipment.

- ◆ Do not use the equipment if there is any mechanical damage
- ◆ Ensure that the equipment is supplied with correct voltage
- ◆ If there is physical damage to the unit then do not use it.

Read complete instruction prior to installation and operation of the unit.

### Wiring Guidelines:

#### CAUTION:



- 1) To prevent the risk of electric shock power supply to the equipment must be kept OFF while doing the wiring arrangement.
- 2) Wiring shall be done strictly accordingly to the terminal layout with the shortest connection. Confirm that all connection are correct.

## Parameter Setting Menus

Press SET KEY  to enter the Parameter Setting Menu

### MENU 1

#### Password 12

Enter Password 12 to enter the Parameter Selection Menu. Users will only be able to Set Value for the enabled parameters in Menu 1

\*Note: If the instruments stay in idle condition while inside the Configuration Menu for more than 60 seconds, then it will automatically exit the configuration menu.

### MENU 2

#### Password 17

Users can SET / Change the value for the parameters enabled in the Menu 1 section.

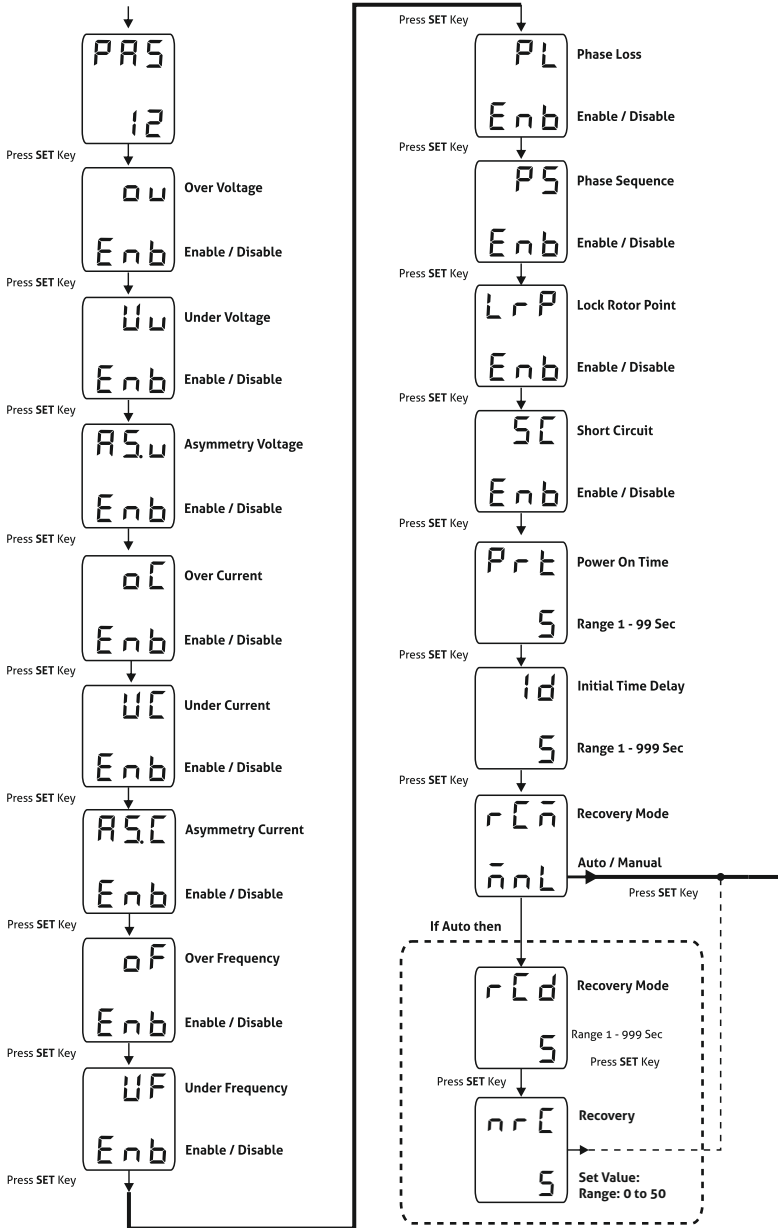
#### \*Installation Note:

It is been advised that the settings should be done by a professional, after going through user operating manual and after having understood the application.

Three Phase Motor Protection Relay

Menu 1 - Password 12

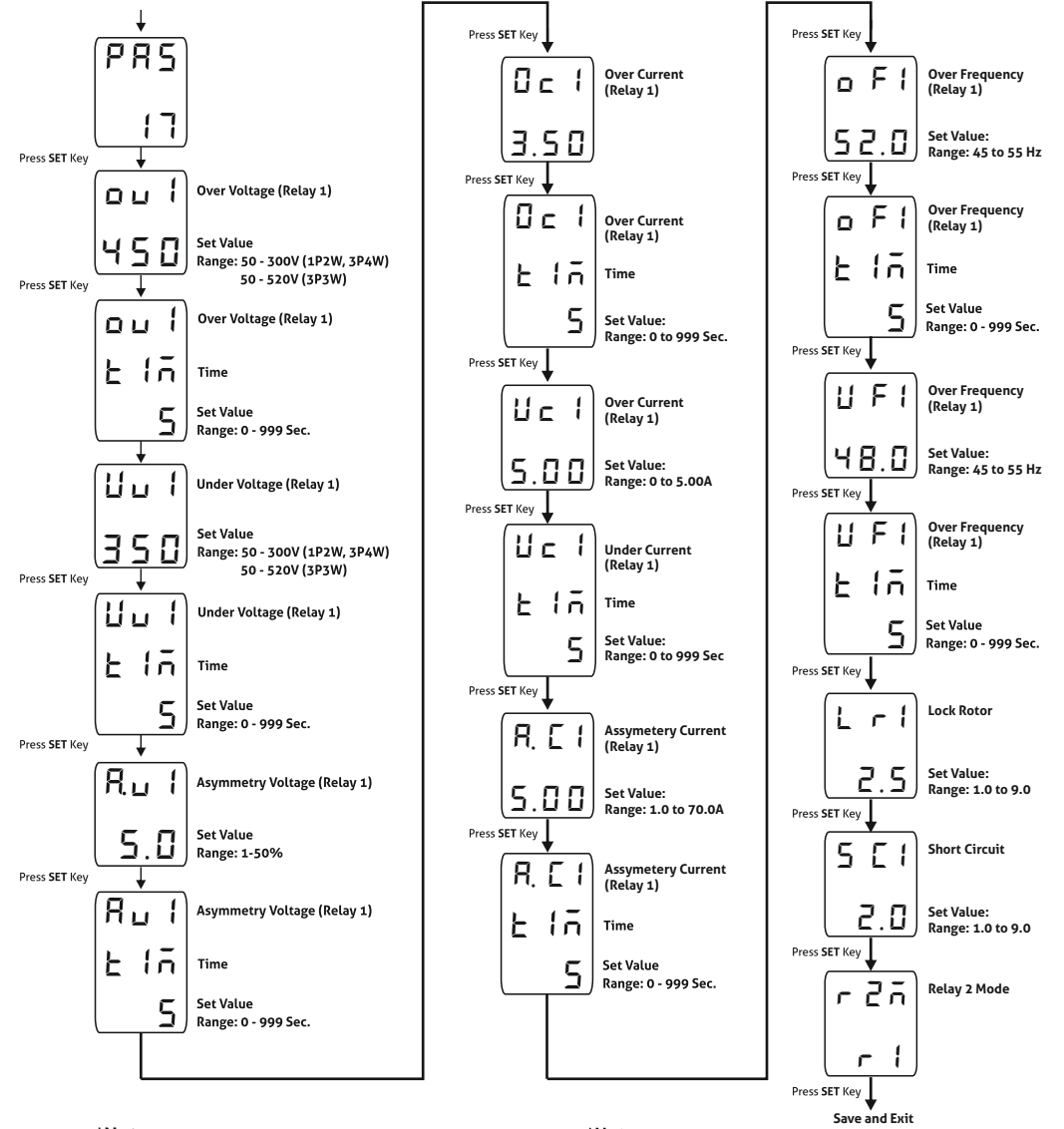
Press set key for 3 sec. to enter the Configuration Menu



This two menu will only be shown if the Recovery Mode is selected in AUTO mode

Menu 2 - Password 17

Press set key for 3 sec. to enter the Configuration Menu



**\*Note:**  
Only Those Parameters which are "ENABLED" in MENU 1 will be available to be configured in MENU 2

**\*Note:**  
If Relay 2 mode is selected as R1 then all the parameter of Relay 1 would copied into Relay 2

If Relay 2 mode is selected as R2 then all the parameter has to be configured separately for Relay 2