EAPL
Model PMD-01 V2.0

INSTRUCTION MANUAL

PMD-01-Phase Monitoring Device

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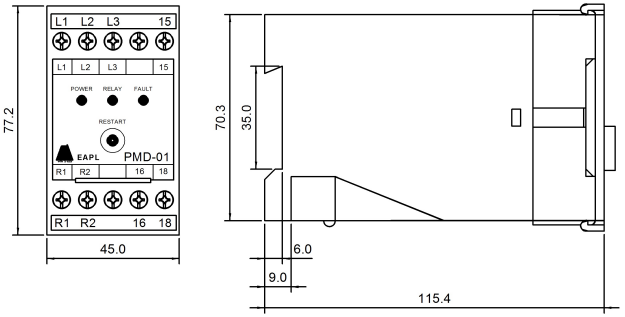
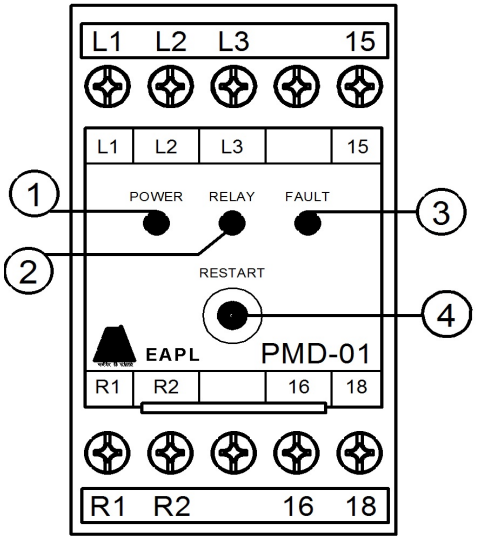
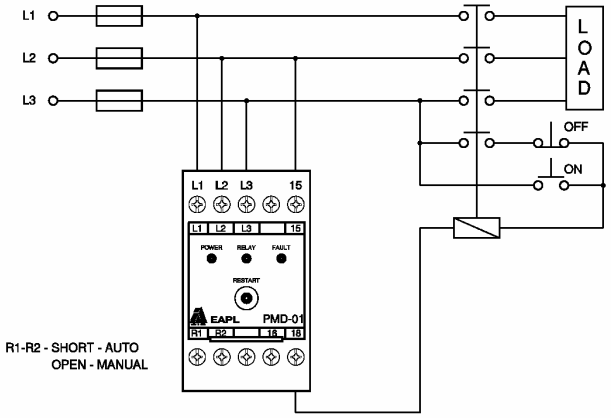
DIMENSIONS



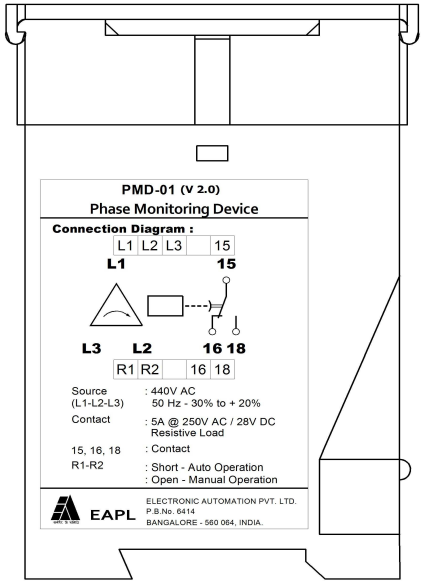
FRONT VIEW



CONNECTIONS



SIDE VIEW



FUNCTION

PMD-01 is a microcontroller based Phase Monitoring Device designed to monitor phase reversal (negative phase), phase failure, phase unbalance and under voltage faults in a 3 phase 3 wire (440V AC) power supply system. The unit monitors the supply phase and voltage and cuts off the supply if any of the faults occur beyond preset delay time there by preventing damage to load.

Terminal Details

L1,L2,L3 : R,Y,B
(440V AC)

15,16,18 : C,NC,NO

R1,R2 : Short-Auto Operation
: Open-Manual Operation

1.Power LED :Power status
2.Relay LED : Relay status
3.Fault LED : Fault indication
4.Restart Button : Button to restart load Manually once healthy Conditions are achieved

Contact Rating

5Amps @ 250V AC/ 28V DC Resistive Load

FEATURES:

1. LED Indication: Three LED indications are provided on the front panel to indicate the power, relay and fault status.
For fault indication of under voltage or phase reversal, the LED glows continuously until fault is cleared. In case of unbalance condition, the fault LED flashes till the fault is cleared.
During phase failure, in case "B" phase fails, LED indication would come ON. In case of "R" or "Y" phase failing, there will be no LED indication because supply to the unit is not available.

2. Restart button: This button is used to manually restart the load after the fault condition ceases.

3. External Restart: Terminals R1 & R2 provided on the front panel can be used for automatic restart of load by keeping them permanently shorted (potential free shorting).
Alternatively, R1 & R2 can be connected to a normally open contact which when shorted externally restarts the load.

How to operate:

Switch ON the unit. If the power is in healthy condition, then the load gets switched on after power ON delay time.

If, the fault LED glows continuously, check power supply for any under voltage.
Else, check for phase reversal by swapping power terminals L1, L2, L3 till proper phase sequence is attained

If the fault LED is flashing, it means there is a phase unbalance.
If there is a Phase failure either the unit itself switches off (when the particular phase to which our unit auxiliary supply is given has failed), else the fault LED will glow.

During run condition, if any fault occurs in the incoming power supply, the unit will wait till the delay time and then trip the load.

Again when the power supply becomes healthy the unit will wait for the power ON delay and then switch ON the load automatically if R1, R2 is shorted. Else operating the push button connected to R1, R2 or restart button will switch on the load after the power on delay time.

HINTS ON CORRECT USAGE

- Use proper gauge wires for connections.
- Ensure all terminals are tightly screwed.

CAUTION

- If the source voltage shoots beyond prescribed rated voltage, the units will be damaged beyond repairs. Suitable protection for incoming voltage is recommended.

DISPOSITION

Once the product life is over, you may send back the unit to EAPL for disposition.

TROUBLE ANALYSIS

- Unit not working.
  Check power supply
  (Rated supply should be applied).

CONTACT

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