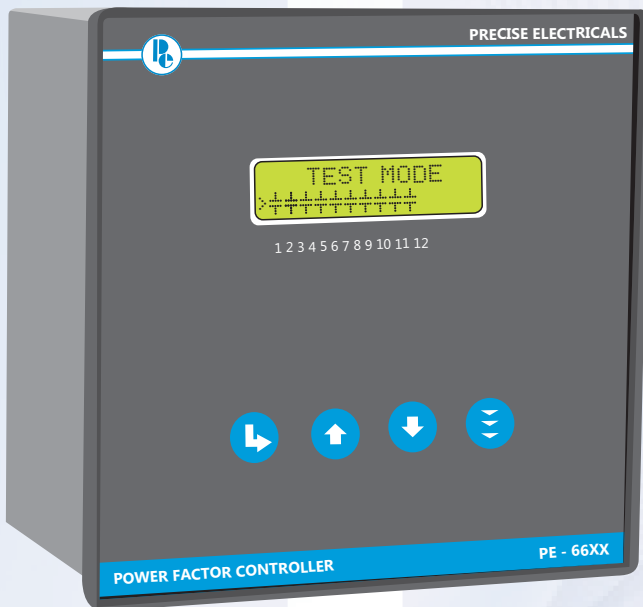




APFC RELAY



Certain electrical loads such as motors found in heavy machineries, can cause the electrical system to be highly inductive. This result in poor power factor. Poor power factor means higher energy losses which ultimately get converted into large electricity charges. A simple solution to this problem is to balance this inductive load with equivalent capacitive load . This is achieved by connecting or disconnecting the capacitors to or from the system. Manual switching of these capacitors is not possible in case of rapidly fluctuating loads . So even in an environment of rapidly fluctuating loads to achieve the required power factor one may need an automatic power factor control device, called automatic power factor controller, to connect and disconnect these capacitors. PE 66 XX E3 controller is an automatic power factor controller used to control the power factor of the system. It can sense the power factor of each individual phase in the three phase

- **ORDER CODE**
PE- 6612 E3
- **DESCRIPTION**
Automatic Power Factor Controller

DISPLAY

- ❖ 16 x 2 Large alphanumeric LCD Display.
- ❖ Capacitor ON/OFF status indication on LCD

DISPLAY PARAMETER

- ❖ Phase to neutral voltages and currents.
- ❖ Power factor of each phase.
- ❖ Active Power (KW), Apparent Power (KVA),
- ❖ Reactive Power (KVAR)
- ❖ Shortfall KVAR display with sign.
- ❖ Required Test Modes for Panel Testing.

ELECTRICAL SPECIFICATIONS

- | | |
|-----------------|--|
| ❖ Voltage Input | 230 VAC \pm 15%, or 415 VAC \pm 15%
110 V (Optional) (H. T Model) |
| ❖ Current Input | 5A , 1A (optional) |
| ❖ Frequency | 50/60Hz |
| ❖ Low current | 1% (50mA) |
| ❖ Accuracy | Class 1, Class 0.5, class 0.2 (optional) |



GENERAL FEATURES

- ❖ Friendly user interface.
- ❖ Easy to install.
- ❖ Complete menu guided programming operation and display
- ❖ Best fit capacitor switching
- ❖ Automatic / Manual operation
- ❖ Test mode for Panel Testing
- ❖ Available in 6,8,10,12,16 stages
- ❖ No of stages can be configured at site
- ❖ Automatic / Manual capacitor value feed
- ❖ Password protected settings.

CONTROL FEATURES

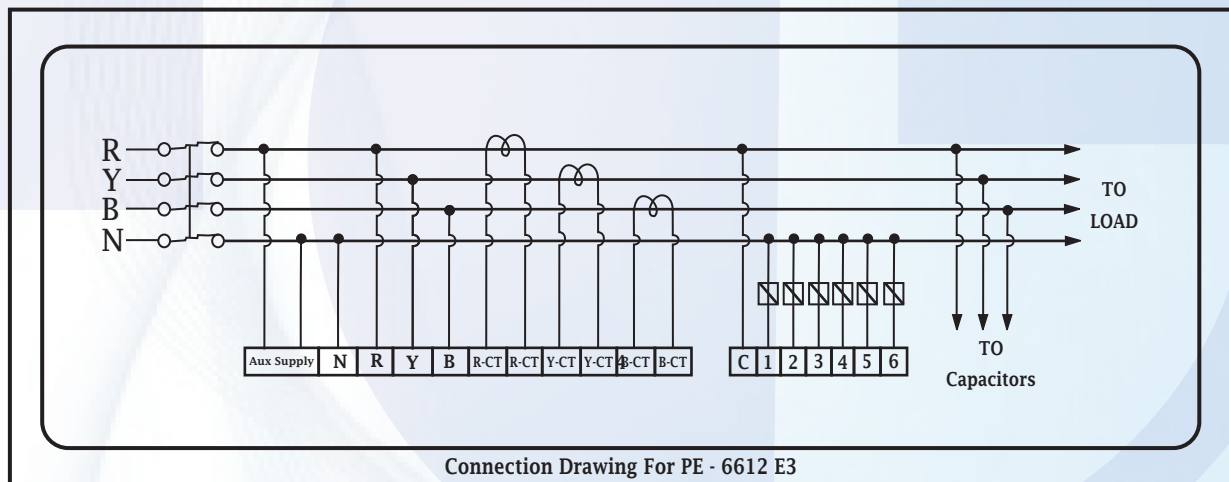
- ❖ Password protection for settings.
- ❖ Site adjustable CT Primary.
- ❖ Adjustable value of Target PF
- ❖ Switching Delay
- ❖ Lock out time for power on
- ❖ Capacitor disconnection in case of Low Current
- ❖ Auto identification or manual feeding of capacitor values
- ❖ Manual switching facility
- ❖ Test mode facility

MECHANICAL SPECIFICATIONS

- ❖ Dimensions 144 (w) x 144(h) x 80(d) mm
- ❖ Panel Cutout 138 mm x 138 mm

OPTIONAL FEATURES

- ❖ HT CT Sensing for HT applications



Connection Drawing For PE - 6612 E3