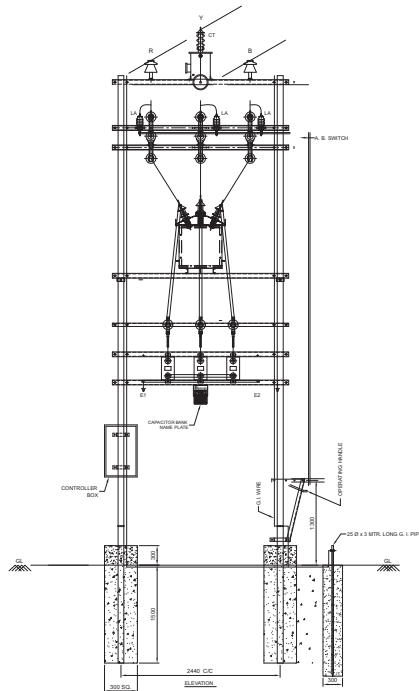


## Pole Mounted Capacitor Bank :

Pole mounted Capacitor banks are installed at the 11KV & 33KV distribution lines to improve power factor and to maintain voltage profile. This is one of the effective installations for reactive power compensation and it's available as fixed or switched system. In switched system bank is switched by solenoid type capacitor switch and it's operated by P.F. correction relay. capacitor units are mounted on racks which are fixed on double pole / single pole structure. Banks are provided with accessories like current & potential transformers, surge arresters on each phase & weather resistance controllers box (unit).



714 Kvar, 12 Kv External Fuse, Pole Mounted Capacitor Bank

## ACU: Automatic Controller Unit.

Shreem make 3 Phase Automatic Power Factor Controller (SPF08-HT) continuously monitors voltage and current in all three phases. Using voltage and in-comer current input relay calculate required reactive power for all three phases and then find out the total required reactive power to achieve target power factor. When this required reactive power is inductive and more than minimum capacitive KVAR step installed in the system the controller sends "ON" command to Capacitor switch. During this operation various switch on combinations are possible and controller switches intelligently the required capacitor steps considering their discharge conditions.

Controller displays all the parameters like phase wise voltage, current, power factor, active power, reactive power, apparent power, voltage and current harmonic order (%THD & odd coefficient of harmonic order up to 15th order). Average parameters for voltage, current, active power, reactive power, apparent power and power factor is also displayed.



### Design Feature:

- 16 x 2 LCD backlit display for parameters and setting display.
- Wide range of auxiliary power supply input from 100V to 300V AC and 0-30V DC.
- Up to 08 nos. programmable output for controlling capacitor banks.
- Standard 144 X 144 cabinet for panel door flush mounting.
- Continuous monitoring internal hardware and indicated as WD (Watch Dog).
- On site CT secondary selection 1A or 5A.
- Bicolor LED Indicate fault & step status.
- Separate Error indication with message

### Operating Feature:

- Micro-processor controlled digital signal processing logic for measurements.
- Automatic Synchronization capable of giving the correct results for wrong polarity of Cts.
- Measurement and display all electrical parameters with odd Harmonic coeff. Up to 15th harmonic order.
- Data recording and downloading of 30days (1Hr. interval) in the form of Hourly record, Fault records.
- Optional PT -100 connections and External mode with Enable/ Disable Option.
- User settable Voltage, Load & Capacitor Current, Temperature, Frequency Protections.
- RS232 (9Pin connector) communication port on front side, RS485 communication port (4 Wire connector) on left side of controller having SCADA compatibility.
- Switching counter up to 10000 operations and reset switch count, reset block step have different options.