



Features:

The Smart Bank has following Features.

- The SMARTBANK consist of Procap make Controller, Solid Dielectric Vacuum Switch, High Dielectric Strength Current Sensor, Potential Transformer & Power Capacitor Units.
- Available at 15KV, 25KV and 35KV application
- Suitable for Indoor application
- Auto or Manual operated Power Factor Correction System

Applications:

Useful for following applications.

- Agriculture Load
- Induction Furnace
- Distribution Transformer
- Heavy Industrial Load

Benefits of Power Factor Correction

- Cost effective.
- Reduce the Electricity costs (Demand Cost).
- Increase Electrical System capacity.
- Harmonic Suppression.
- Improves voltage regulation.
- Allows size reduction in cables, transformers and switchgear.
- Allows expansion without additional electrical improvement.
- Reduction in Transformer & Distribution equipment losses.
- Improvement in Electrical Energy Efficiency.

Construction:

The SMART BANK is equipped with a Controller, Solid Dielectric Vacuum Switch, C.T. & P.T. & Power Capacitor Units. The Bank will protect using the Current Limiting Fuses, having Short Circuit Current interrupting capacity. For measuring & protecting purpose, Highly accurate Current & Potential Transformer is used.

Controller:

As per the Load condition & parameter setting in the Controller, it will Switch ON/OFF the Capacitor switches. The Controller provides 15A SLO-BLO fuse for protecting the Capacitor bank Switches. The Controller has following Feature.

- 1) The Setting is based on either Voltage or Reactive Amp. or based on Override of above setting. The setting is also based on Time / Temperature / Voltage or Override of these parameters.
- 2) It will display all the Electrical Parameters like Control Volt, Rated Volt, Active Power, Reactive Power, Apparent Power, Line Amp., Reactive Amp. & % of Current Harmonic Distortion
- 3) Numbers of ON operations in Auto as well as in Manual Mode are accounted into Controller.
- 4) Data Recording & Downloading facility.
- 5) It provides internal 5min Delay after the switch is operated from ON to OFF condition. There is also provision to add 3 to 600Sec. delay facility.

Vacuum Switch

The Capacitor Bank is Switch ON using the Solid Dielectric Vacuum Switch. To operate the Switch Electrically the operating Voltage 120V is reqd. (Option for 240V can be available on Demand)
The Dielectric Switch having following Features.

- 1) The Switch is constructed of a high performance vacuum interrupter fully encapsulated within a Solid Cycloaliphatic Epoxy Dielectric compound.
- 2) Suitable for 15KV, 25KV & 35KV application
- 3) Used at 200A Capacitive Switching Current
- 4) Maintenance Free operation
- 5) High Frequency Transient Current
- 6) Large 0.40 in. vacuum gap increases Dielectric strength, providing Higher BIL capability & Restrike Free operation at higher Voltage.
- 7) Restrike Free Interrupter: Restriking of switch contact cause over voltage stress on capacitor as well as Switch Insulation.
- 8) V-Bushing allow easy connection and can be rotated 360
- 9) Visual Indication of Open/Close Operation

Capacitor Unit:

The Main Part of the SMARTBANK is the Power Capacitor Units. Each Power Capacitor Unit consist with a Discharge Resistor that will reduce the residual Voltage to 50V after Five minutes when the Power the disconnected from the Unit. The Main Features of the Capacitor Unit is

- 1) Single/Three Phase High Voltage Capacitors at 50Hz/ 60Hz
- 2) Voltage available up to 24.70KV
- 3) The Dielectric of APP Capacitors takes the form of Low loss Polypropylene film+ Foil elements, which are completely dried in high Vacuum and impregnated in NPCB Oil.
- 4) Long life & extremely stable Electrical characteristics.
- 5) Very low losses and the Heat dissipation quality due to Oil impregnant



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