

Power Factor Controllers PFR Series



Reactive Power Controllers MCE ADV, PFCL and MASTER are designed to measure the Reactive Power of an installation and to give the necessary instructions for connecting and dis-connecting capacitors in order to maintain the desired cost Φ . All the controllers are commanded by a microprocessor that ensures an uniform ageing of contactors and capacitor by using a circular connection sequence that takes into account the time that each capacitor has been switched on.

Power factor value to be reached can be adjusted in a continuous way, between 0.85 inductive and 0.95 capacitive. Standard working programs for controllers are 1:1:1:1, 1:2:2:2, 1:2:4:4, 1:2:4:8 and 1:1:2:2.

Advantages

- Uniform ageing of the capacitors and contactors
- High speed operation with less number of switching's
- True RMS measuring circuit, insensitive to harmonics
- Automatic disconnection of all the capacitors in the case of a failure in the electrical network
- Detection and Automatic indication of current transformer wrongly connected
- Digital $\cos \Phi$ display
- Adjustable operation delay
- Power factor alarm relay (PFCL/MASTER)
- Harmonic distortion alarm relay (PFCL/MASTER)
- Some others advanced features, depending on the model.

Applications

- APFC Panels
- Fast Response Thyristor Switched Capacitor Banks (RTPFC)
- High Voltage APFC Panels

Range

- MCE ADV of 6 or 12 steps for standard automatic bank
- PFCL available with 6 and 12 relays, size 144 mm x 144 mm with special alarms and communication
- MASTER, available with 6, 12 and 14 relays, size 144 mm x 144 mm with special alarms and communication

The Ideal Customer

- All industries having harmonic generation
- Company with variable loads

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