Engineering Specifications
Power Factor Correction Systems
Power Factor Controller GE Model 51655-0022

Function:

Microprocessor based Power Factor Controller measures the reactive current on every passage of the voltage through zero. Measures the active and reactive currents separately and mathematically calculates Power Factor from these values. Automatically switches capacitors as required by the plant load to maintain a desired power factor. Target Power factor range programmable from 0.70 inductive to 0.70 capacitive. Capacitors switched in non-sequential rotation or sequential stepping arrangement [selectable].

Programmable stage ratios that allow for larger capacitor banks. Programmable Harmonic voltage, current, failure to meet Power Factor, loss of voltage and loss of current alarms.

Display Features:

- Completely digital display
- Power factor 0.00 inductive … 1.00 … 0.00 capacitive
- LCD capacitor step indication.
- Target power factor setting 0.70 inductive … 1.00 … 0.70 capacitive
- Menu driven programming

Technical Information:

- State of the art microprocessor technology
- Graphical and alphanumeric display
- Full control of C/K values
- Programmable CT polarity retrieval
- Suitable for systems with or without a neutral
- All steps are released at voltage dropout
- Normally open dry contact available for an alarm
- Flexible programmable stepping sequence methods
- THD(u) measurement and alarm
- Capacitor over current measurement and alarm
- Measurement and alarm of low capacitor output
- Hunting alarm for narrow C/K range
- Any step can be set as automatic, fixed or off
- Dual over temperature alarm, 60C Alarm, 70C Auto shutdown with recovery

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