PowerOptimal PowerGuard CPM-3PC Mk2 specification

INTRODUCING THE PowerGuard® CPM-3PC Mk 2



The PowerGuard CPM-3PC MK2 is a maximum demand controller designed to control loads where either not enough power is available or where peak demand (kVA) needs to be reduced in order to save on electricity bills.

This single enclosure houses power supplies, communication modem, display, control selection as well as all the required external connector terminals.

SPECIFICATIONS

INPUT

Load information is accessed from standard current transformer outputs covering the point of entry serving the area to be controlled.

CONTROL

Current or kVA-based control can be selected to regulate demand. For customers with insufficient supply, current based phase selective sheds ensure that only the transgressing overloaded phase responds to shed signals. The number of shed signals per half hour are recorded to assist with fine-tuning shed levels while line current graphs aid with phase balancing.

PROGRAMMING

All the variables associated with creating a shed instruction can be set up either on rotary numerical switches or slide selector switches. This enables all shed criteria to be viewed without the need for laptops or specialised software.

DISPLAY

An on board LCD unit displays the real time line currents and total kVA. Light emitting diodes indicate processor heartbeat; phase conscious shed requests, line quality of shed signals and total shed demand.

SPECIFICATIONS

- Current transformer ratio adjustable from 1 to 9 999 Amps. Secondary output is 1 Amp into 1 Ohm burden for full scale
- Star, delta LV and MV catered for

- Supply from standard 3-phase 230 Volt, < 20 Watts
- Shed level is adjustable from 1 to 9 999 Amps or kVA
- Two closing contact inputs are available to reduce ‘time of use’ sensitive accounts from 1 to 99% of selected shed level
- Single contact closure for total progressive shed/restoration of all loads, e.g. air conditioners after hours
- Shed interval delay adjustable from 4 seconds to 99 minutes
- Switch selectable shed criteria for Amps or kVA
- Two user specific selections for custom software
- 1 to 31 kVA backlash adjustment
- Screwdriver adjustable current simulation with phase selection for testing
- Remote control via cellular networks
- Clear cover to observe load, total kVA, shed activity and shed criteria
- Housing dimensions are 380H x 280W x 135H mm, Weight is 3.8 Kg.
- On board GPRS modem for remote internet based monitoring of phase currents, kVA, shed request profile, shed active report and average phase voltage
- Conforms to IEC/SANS 60669

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