Ennergy Experts

We Shape Energy

ENNERGY EXPERTS PRIVATE LIMITED



APFC Controller

Power Quality Solutions

Automatic Power Factor Controller

Automatic Power Factor Controller For Contactor & Thyristor Switching Application

www.ennergyexperts.com



Features

- **Measurements are with Class-1 accuracy.**
- **Advance Automatic synchronization feature.**

It is capable of giving correct results even for wrong connections at CT terminals (& also wrong polarity of Cts).

- **Load V,I and THD measurement .**
- **Mode for switching: Un-equal (user defined)**
- **Capable of doing reactive power measurements on every cycle of the mains waveform.**
- **Standard 144 X 144 cabinet for panel door flush mounting.**
- **Serial communication through standard Dedicated protocols.**
- **One RS-232 communication port is optional.**
- **Two months of data logging is possible. data in the form of Hourly Records & Fault Records– recording all electrical values.**

- **Event Protections :**
  - -Over/under Voltage(OV/UV)
  - -Over/Under frequency (OF/UF)
  - -Under load(UL).
  - -Over Current (OC).
  - -Over Temperature (OT).
  - -Harmonics Fault.

User can configure some of these events for different conditions like:-Indicate, Disable, Trigger(Capacitor) Off, Fast OFF. etc.

- **Warnings :**
  - -Battery Low Indication(BL)
  - -Current Over-Load on transformer
  - -Battery Fail (BF)
  - -over harmonics current (IH)
  - -Over harmonics voltage(VH)

Specifications

- Measurement Accuracy: Class 1.
- Feed-back Voltage:Nominal 254 V (L-N), 3-Phase, 4-Wire configuration.
- Current input: 5Amp.
- Auxiliary Supply: 240 (Line-neutral)(+20% to –30%).
- Correction time:

Selectable in seconds from 1sec. to 2500sec.

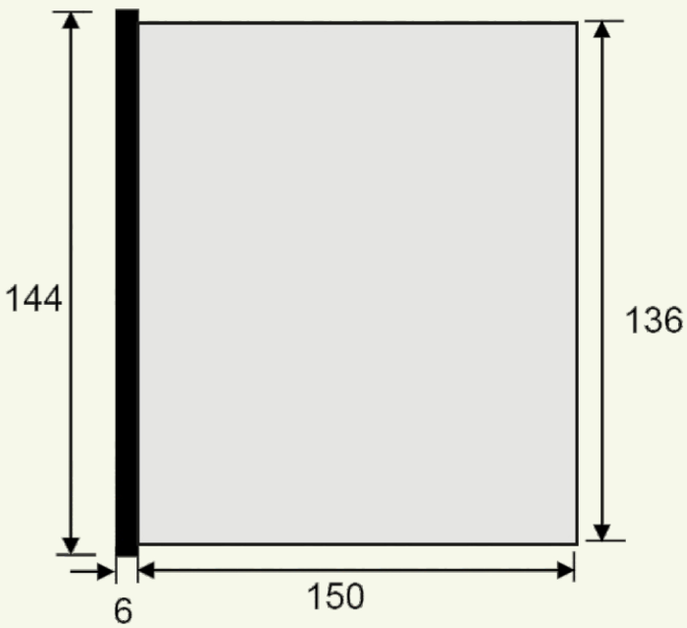
- Output commands: 4.

(Isolated 'NO' contacts of rating 5Amp ac / 250Vac).

- Dedicated RS232 port is provided.
- Operating temperature: 0 to 65oC.
- RS-232 baud rate selectable up to 38.4kBPS.
- Class-1 measurement operating temperature: 0 to 50oC.
- Storage temperature: 0 to +70oC.
- Humidity: 0 to 95%.
- Supply frequency: 50 Hz.

Mechanical dimensions:
All Dimensions given are in mm.

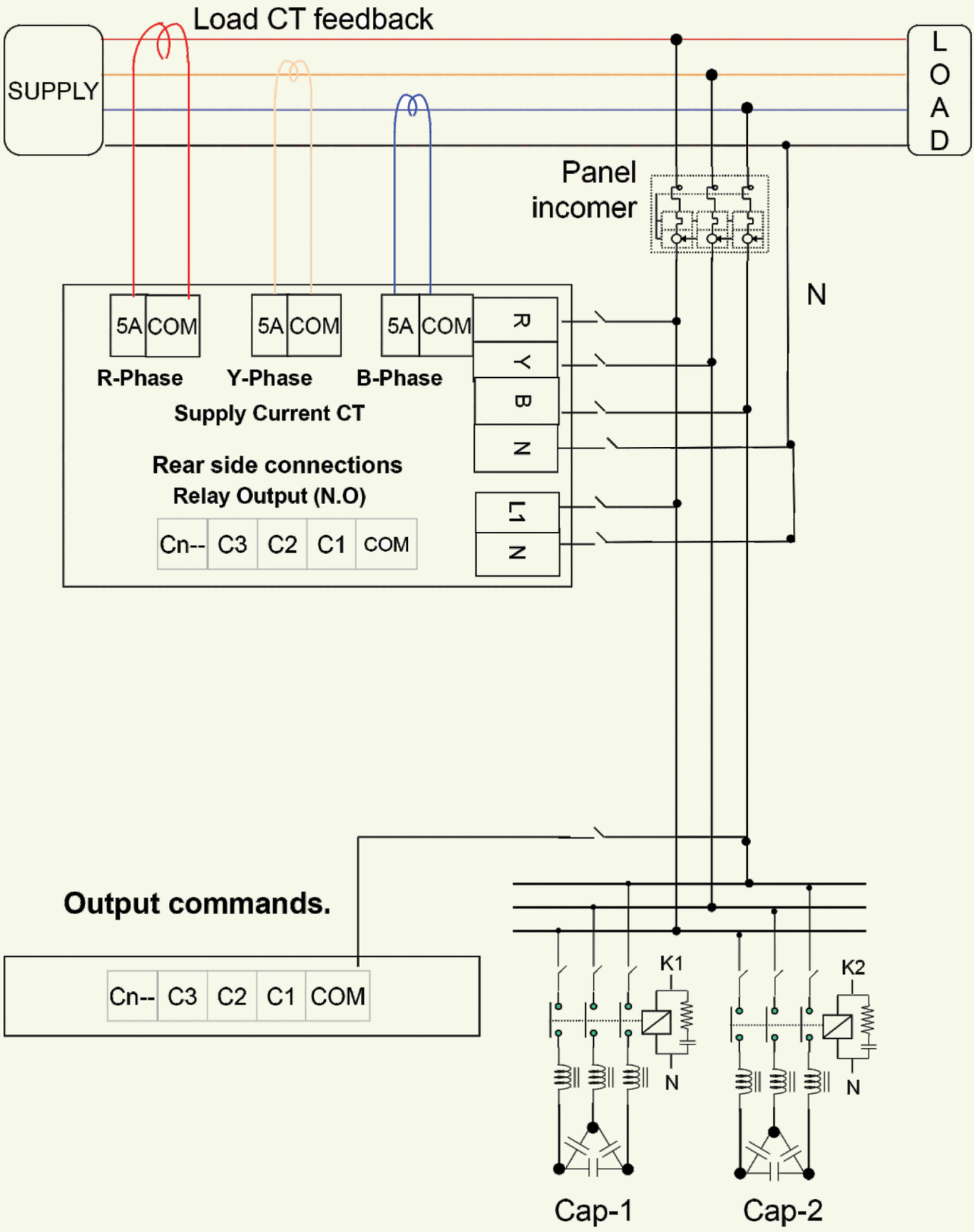




Side view

Recommended size for cutout on panel door is 137X 137.
Maximum weight: (with clamps and terminals) = 1.1 kg(approx.).

Typical wiring diagram for PF correction



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Bajaj Electricals Ltd. · Shirke Group of Companies · Crompton · Kalburgi Cement · Kalika Steel

CG Power and Industrial Solutions Ltd. · Tilaknagar Industries Ltd. · Keva · Wikas Printing & Carriers Pvt Ltd of Sakal Media Group · BSE The Power of Vibrance

लोकमत · MNGL Maharashtra Natural Gas Ltd. (A JOINT VENTURE OF GAIL (India) Ltd & BPCL) · HIMEDIA FOR LIFE IS PRECIOUS

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