

- c. Neutral to earth
- G. The protector shall have continuous indication of its protection status. Following conditions shall be monitored:-
  - a. Full protection present
  - b. Reduced protection –replacement required
  - c. No protection – failure of protector
- H. Remote indication of status shall be possible via a volt free contact.
- I. The status indication shall provide warning of protection failure between all combinations of conductors, including neutral to earth. This shall prevent a potentially dangerous short circuit between neutral and earth going undetected for some time.
- J. The protector shall be supplied with detailed installation instructions. The installer shall comply with the installation practice detailed by the protector manufacturer.
- K. The minimum rating of 63 A MCCB/MCB or as recommended by the manufacturer shall be provided as Isolation means to disconnect the device from the power source.

### **1.3.17 Power Monitor**

- A. Power Monitor (PM) shall be a true RMS digital instrument, with LCD display mounted locally on the Incomers' cubicle door, capable of controlling and measurement highly non-linear loads accurately and able to detect voltage based disturbances.
- B. PM shall be CE marked and confirm to BSEN 61010-1
- C. The Power Monitor shall register all measured values and log current and previous measured values for reporting and printing purposes.
- D. The Power Monitor shall be supplied with software, user manual and associated interconnecting cables.

#### **1.3.17.1 Features**

- A. The Power Monitor shall include the following features as minimum but not be limited to:
  - a. True RMS measurement of current and voltage
  - b. Control and measurement of highly nonlinear loads