Three Phase Lamp Load

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Abstract: A lamp load bank is a device which used as an electrical load, applies the load to an electric al power source and converts or dissipates the resultant power output of the source. The purpose of a load bank is to accurately mimic the operational or “real” load that a power source will see in actual application. However, unlike the “real” load, which is likely to be dispersed, unpredictable and random in value, a load bank provides a contained, organized and fully controllable load. Consequently, a load bank can be further defined as a self-contained, unitized, systematic device that includes load elements with control and accessory devices required for operation.

- This project is used to load for AC electrical system.
- For laboratory to check any equipment in both balanced and unbalanced condition the lamp load is used.
- To measure the rated parameters like voltage, current and power etc.
- The lamp load is the resistive load.
- Lamp load can be connected in series with load termination points.
- Switches are provided in each branch to vary the load.
- Voltmeter and Ammeter are used to measure the voltage and current.
- MCB is used for protection along with indicators.
- This Lamp load offers load of 3kW at unity power factor.

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