

## Fundamental of Electrical Engineering Laboratory



This image shows instruments used in fundamental electrical engineering lab like three phase capacitive load; its capacity is 2 KVAR and input voltage is 415 V, single phase loading rheostat; its capacity is 5 kW ,single phase choke coil (250 V,10 A), AC and DC ammeters, AC and DC voltmeters, wattmeter (0 - 300 W), dc series motor , rheostat (100  $\Omega$ , 2 A), dc voltage source (0-32 V ) and multimeter.

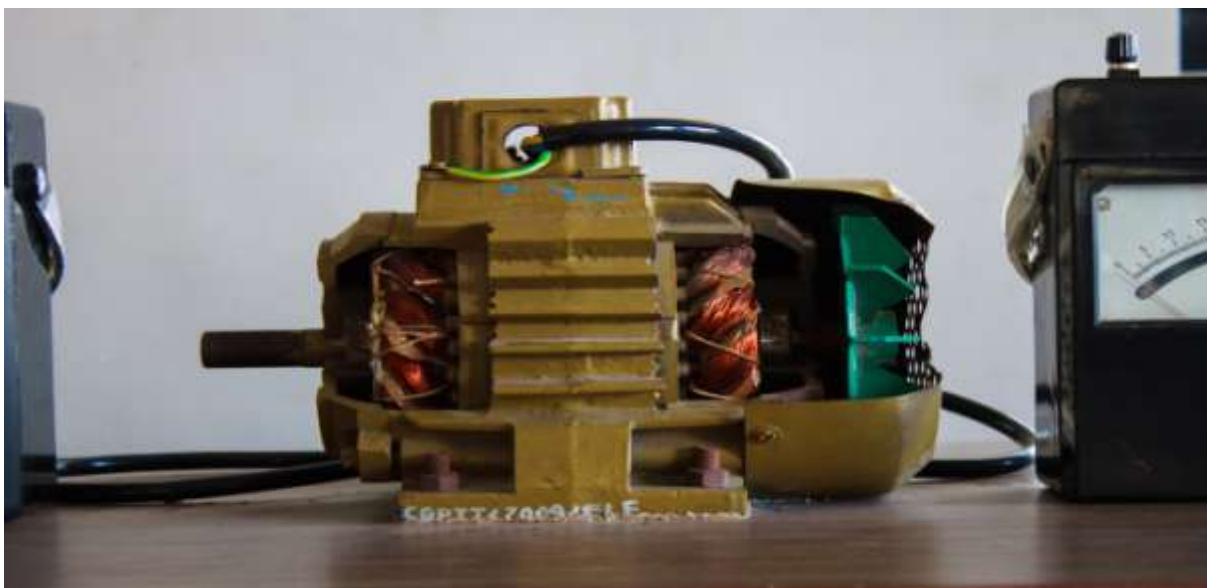




This image shows single phase variable ac source ,three phase variable ac source , DC regulator battery, multimeters, ammeters, voltmeters, wattmeters, resistive load , choke coil, DC motor and godown wiring.



Here we can see DC voltmeter, wattmeter and AC ammeter and its range is (0- 50) V, (0 – 300) W and (0 – 5) A respectively. These instruments are used in measuring the voltage, power and current in the circuit. In wattmeter we can see four terminals M (mains), L (line), C (common) and V (volt, 150 V – 300 V).



This image shows cross sectional view of single phase induction motor for understanding the basic concept of various parts of single phase induction motor. In this motor we can see that fan is used as a cooling purpose. In this cross-sectional view we can also see the stator windings which consists of main winding as well as auxiliary winding.