Introduction  
AN ELECTRIC MOTOR IS A MACHINE THAT CONVERTS ELECTRICAL ENERGY INTO MECHANICAL ENERGY. THIS MECHANICAL ENERGY IS USED FOR, FOR EXAMPLE, ROTATING THE PUMP IMPELLER, FAN, OR LIFTING MATERIALS, ETC.

Working theory

If an electric current passes through a wire crossed with a magnetic field, the wire is affected by a force it works to move it in a direction perpendicular to both the direction of the field and the direction of the current or if a current passes through a coil in the shape of a rectangle intersecting a magnetic field, so the coil is affected by a torque a coupling that rotates around its axis. We will explain some comparisons between some types of AC & DC Motors.

AC Single phase induction Motor

A single-phase induction motor or asynchronous motor is an AC electric motor in which the electric current in the rotor needed to produce torque is obtained by electromagnetic induction from the magnetic field of the stator winding.

Advantages Of Squirrel Cage & Wound Rotor

Speed Control

Capacity

Efficiency

Maintenance

Speed

MostEquation: x2 +5=9