

ELECTRIC MOTORS

Q. What is a motor?

A. An electromechanical device designed to convert electrical energy into useful work.

Q. How does a motor work?

A. Motors function by chasing magnetic fields around.

Electricity and magnetism are closely related. The former is associated with static charge, the latter arises due to charge in motion (electric current).

Motor types:

Motor Components: (Not all in the same motor)

AC

Field Winding

DC

Rotor

Universal

Stator

Induction

Armature

Linear

Commutator

Rotary

Slip Rings

Stepper

Brushes

Brushless DC

Bearings

Shaded Pole

Electromagnet

Single Phase

Permanent Magnet

Three-Phase

Soft-Iron Laminations

Go home and look up:

Wikipedia / Electric Motor