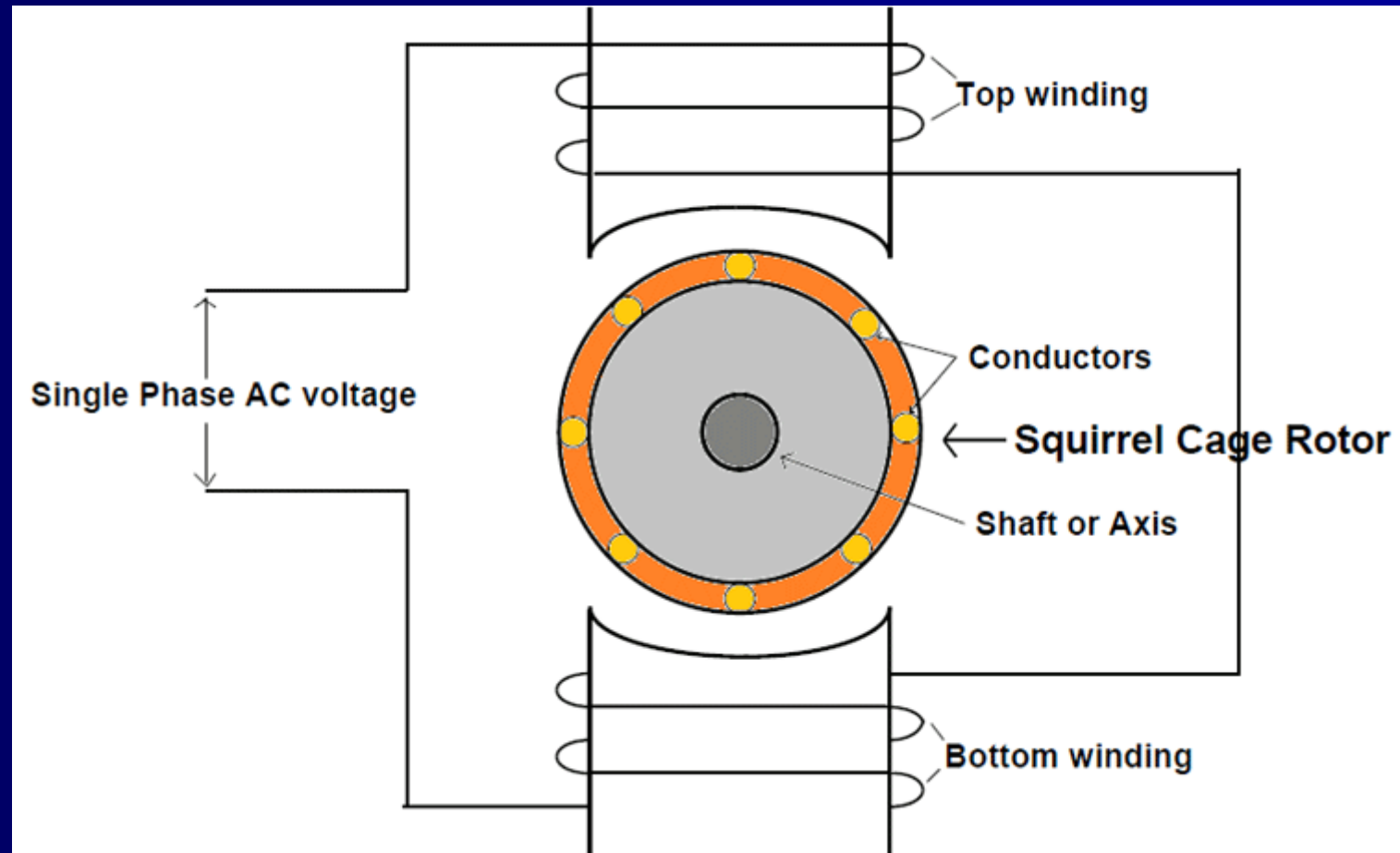




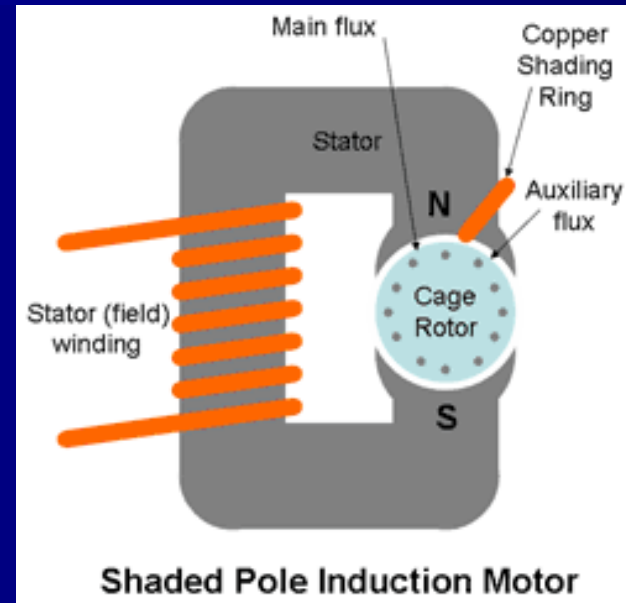
AC Single Phase Motors



Motor Flux



SHADE POLE MOTOR
 1/200-1/250 W
 Speed 1725 R.P.M.
 MFG BY Eideco Corp., Evt. Ltd.
 8/28R, BOX 28, VTC THANE AND GOS



Controlled Document E2-CP-021

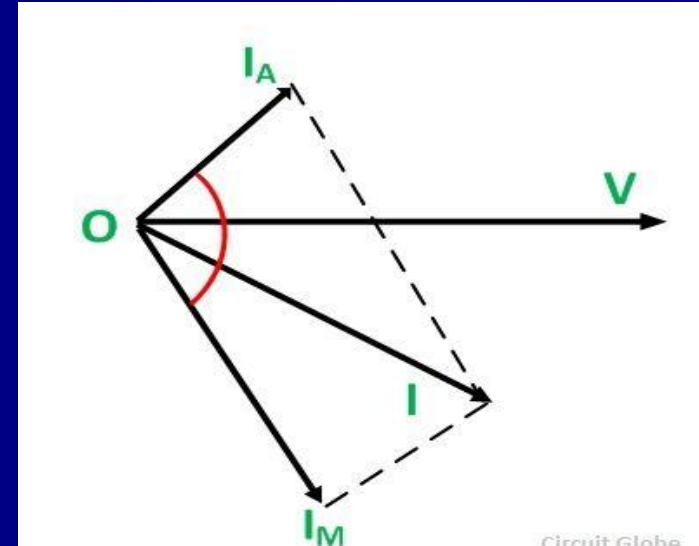
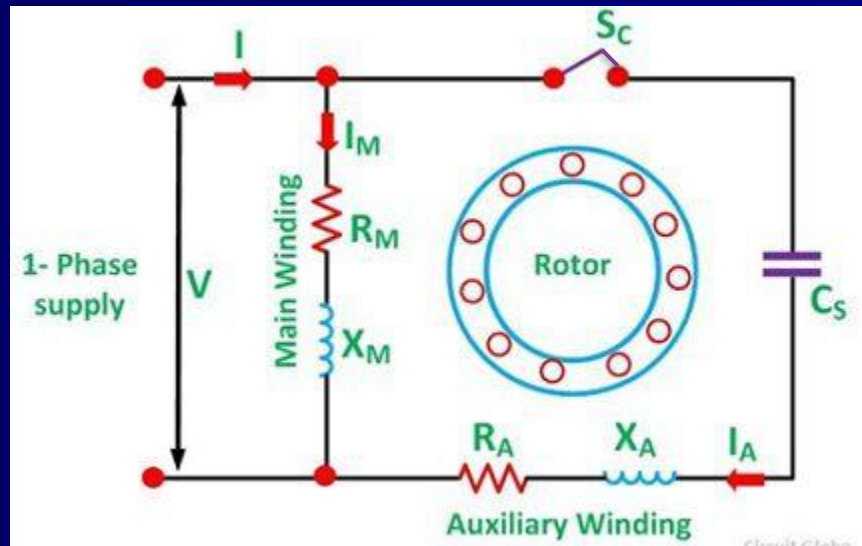


Capacitor Start Motor



A **Capacitor Start Motor** is a single phase Induction Motor that employs a capacitor in the auxiliary winding circuit to produce a greater phase difference between the current in the main and the auxiliary windings.

Capacitor Start Motor



The motor has a cage rotor and two windings on the stator. They are known as the main winding and the auxiliary or the starting winding. The two windings are displaced on the stator by 90 degrees. The capacitor (C_S) is connected in series with the starting winding by a centrifugal switch (S_C) which will disconnect the capacitor when the motor reaches full speed.



Series Universal Motor



This motor is essentially a DC series motor that due to its design of utilising a commutator to supply current to the armature or rotor, the AC supply will have the same effect on direction of rotation. When the AC stator field windings are alternating so is the rotor field hence Flemings left hand rule will apply.