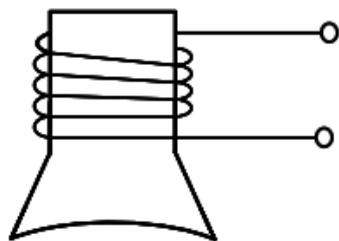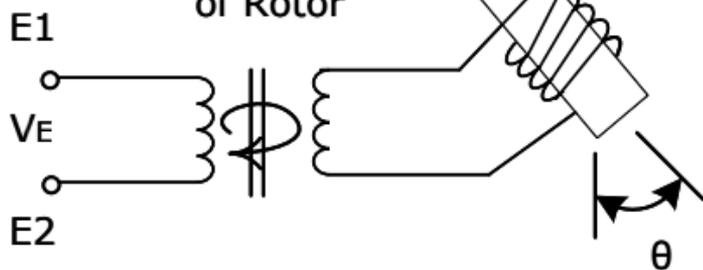Secondary Cos Winding

$$V_C = K * V_E \cos \theta$$

S4

S2

Secondary Winding of Rotor
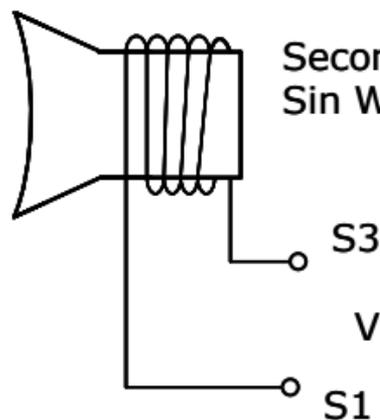
Primary Winding of Rotor

Primary Winding of Stator

E1

V_E

E2

θ

Secondary Sin Winding

S3

$$V_S = K * V_E \sin \theta$$

S1

K = Transformation constant
V_E = Excitation voltage to Stator
V_C = Secondary Cosine voltage
V_S = Secondary Sine voltage