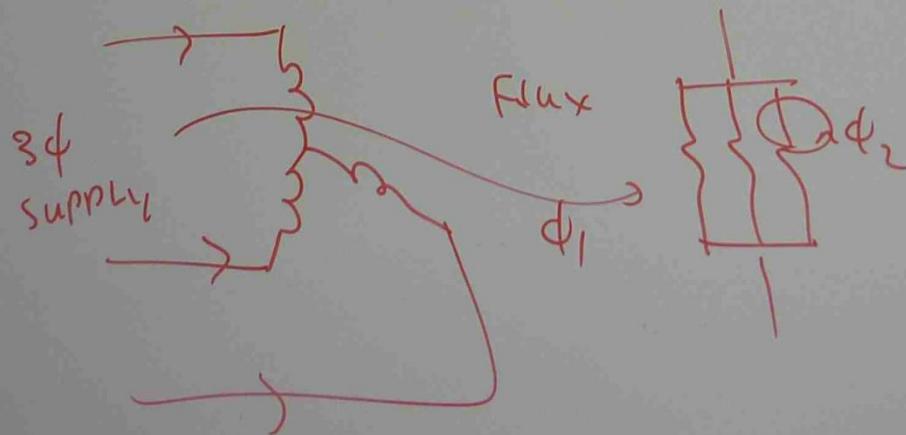


SYNCHRONOUS MACHINE

INDUCTION MACHINE

- 3⁴ SUPPLY TO STATOR
- STATOR PRODUCES MAGNETIC FLUX
- STATOR MAGNETIC FLUX INDUCES VOLTAGE AND CURRENT IN ROTOR
- ROTOR PRODUCES MAGNETIC FLUX
- INTERACTION BETWEEN STATOR AND ROTOR FLUXES
- TORQUE PRODUCED.

SQUIRREL CAGE ROTOR
WOUND ROTOR



CONSTRUCTION

SYNCHRONOUS MACHINE

Two supplies

AC SUPPLY

3Φ WINDING

DC SUPPLY

FIELD WINDING

Flux
INTERACT

Torque produced

CYLINDRICAL
ROTOR MACHINE

3Φ
SUPPLY

SALIENT
POLE
MACHINE

CONSTRUCTION

Synchronous machine

Two supplies

AC supply

3 ϕ WINDING

DC SUPPLY

FIELD WINDING

Flux

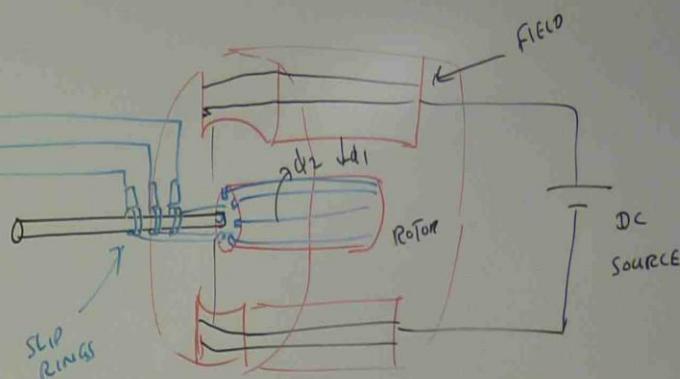
Flux

INTERACT

Torque produced.

CYLINDRICAL
ROTOR MACHINE

3 ϕ
SUPPLY



HIGH SPEED MACHINE

SYNCHRONOUS
MOTOR

SALIENT
POLE
MACHINE

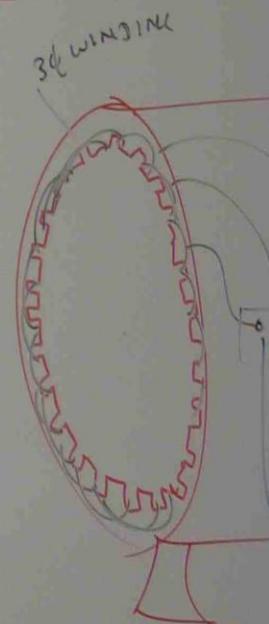
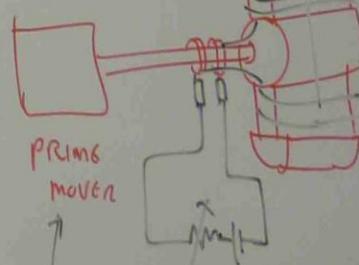
SYNCHRONOUS

LOW SPEED

HIGH VOLTAGE

GENERATOR

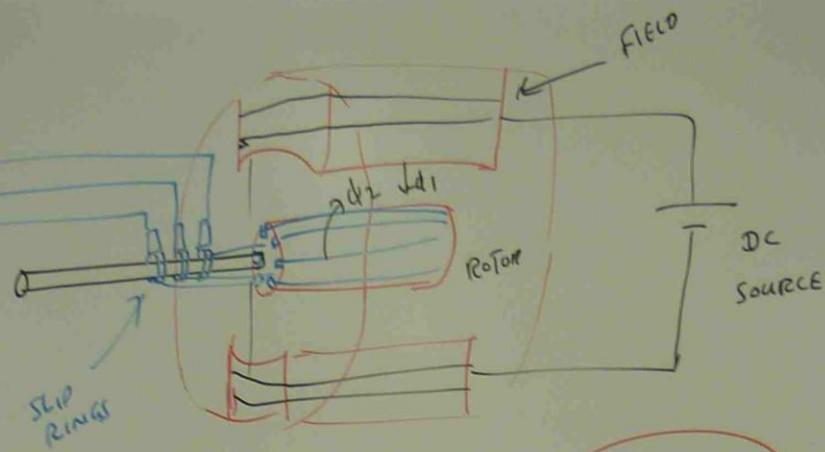
WATER
TURBINE
DC EXCITER



CONSTRUCTION

CYLINDRICAL
ROTARY MACHINE

3^Φ
SUPPLY



HIGH SPEED MACHINE

SYNCHRONOUS
MOTOR

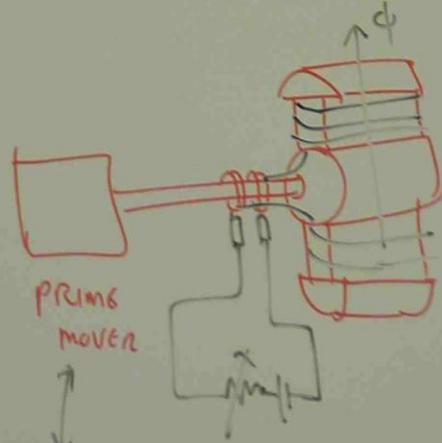
SALIENT
POLE
MACHINE

SYNCHRONOUS

LOW SPEED

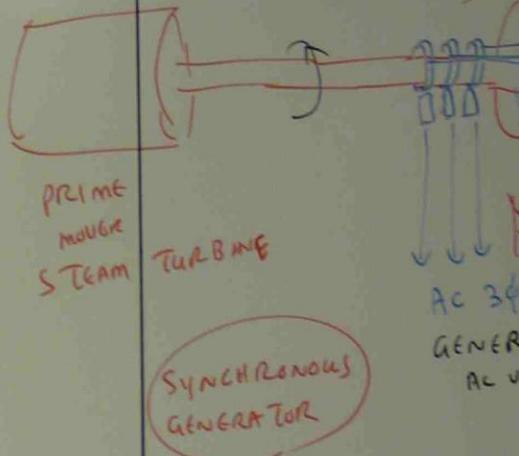
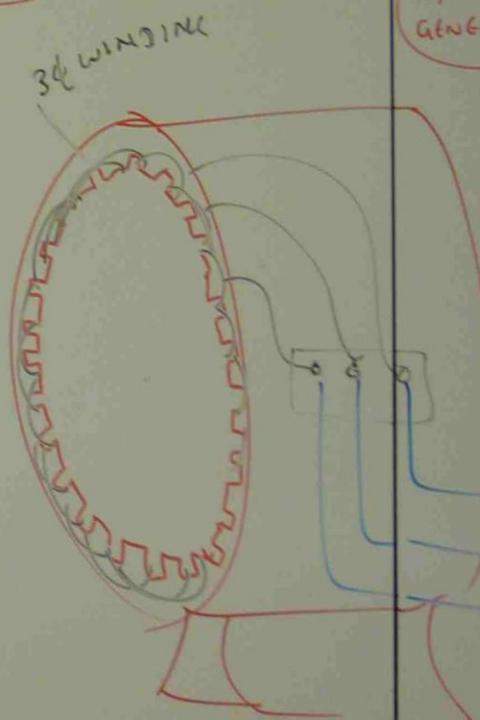
HIGH VOLTAGE

GENERATOR

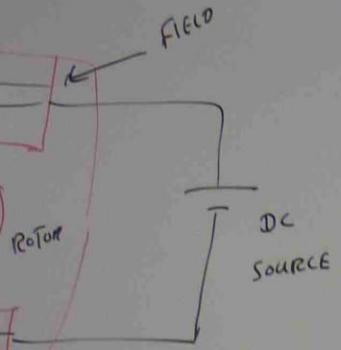


WATER
TURBINE

DC EXCITER



3^Φ GEN
VOLTAGE

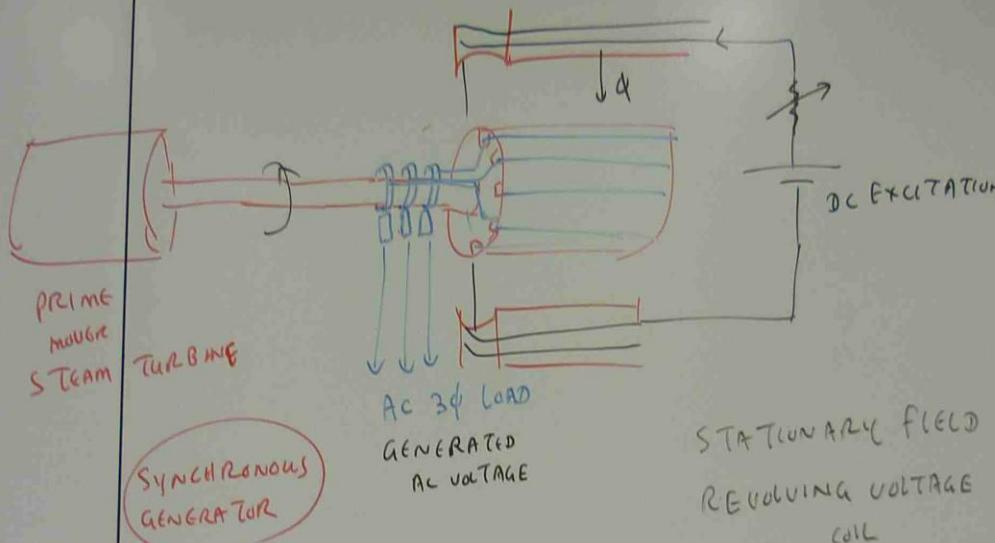


**SYNCHRONOUS
MOTOR**

3φ WINDING



ITGA



REGULATING FIELD

STATIONARY VOLTAGE COIL

VERTICAL TYPE

