

Type of losses in Electrical Machine

1. Copper losses: → Resistive losses in the

winding of a machine are frequently referred to as copper losses.

The resistance of a conductor varies with temperature & frequency.

2.) Mechanical losses: — This category includes friction & windage losses.

Friction occurs in the bearings that support the rotor shaft & between brushes & commutators or slip rings.

Windage is basically the fluid friction due to the rotor & fan assembly.

3.) Core losses: Core losses include the hysteresis & eddy current losses in the steel of the machine.

4.)

Stray losses: Any other losses &
by convention stray loss is taken to be
1% of the O/P of D.C. Machines.