

**ELECTRIC DRIVES**  
**SUB. CODE : PC EE - 701**  
**B.TECH 7<sup>TH</sup> SEM**  
**IN EE/EEE ENGINEERING**  
 Prepared By – S.Das.

**UNIT – 2 ( Motor Power Rating) & 3 (Starting of Electric Drives)**

*Thermal model of motor for heating and cooling:*

An accurate prediction of heat flow and temperature rise inside an electrical motor is very difficult owing to complex geometrical shapes and use of heterogeneous materials.

- A drive engineer's duty is to select a motor rating for a given application ensuring that temperature in various parts of motor body do not exceed the safe limit.
  - Thus, assuming that heat conductivities of various materials do not differ by large amount and thus by assuming the motor to be homogeneous, a simple thermal model of the machine can be obtained. Although inaccurate, such a model is good enough to determine rating of a motor.
  - Let the motor as assumed, be a homogeneous body, and the cooling medium has the following parameters at time "t". P<sub>1</sub> = Heat developed; joules/sec or watts P<sub>2</sub> = Heat dissipated to the cooling medium; joules/sec or watts W = weight of the active parts of the motor; kg h = Specific heat; joules/kg/ °C A = cooling surface area; m<sup>2</sup> d = Coefficient of heat transfer; joules/sec/m<sup>2</sup>/ °C θ = mean temperature rise; °C
  - During a time increment dt, let the machine temperature rise be dθ.
- Since . Heat absorbed (stored) in the motor = Heat developed inside the motor – Heat dissipated to the surrounding

$$\text{OR } Whd\theta = P_1 dt - P_2 dt \quad \text{-----} \quad 5.1$$

$$\text{Since } P_2 = \theta dA \quad \text{-----} \quad 5.2$$

substituting 5.2 in 5.1, we get;

$$C \frac{d\theta}{dt} = P_1 - D\theta \quad \text{First order diff. equation} \quad \text{-----} \quad 5.3$$

Where, C = Wh, thermal capacity of the motor; watt/°C  
 D = dA, heat dissipation constant; watt/°C

Heat dissipation mainly occurs through convection. Typical values of "d" are in the range of 40 of 600 w/m<sup>2</sup>/ °C.

- The 1<sup>st</sup> order differential equation 5.3. has a solution;

# Electric Drives Question Paper Of 7th Sem

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