

ELECTRIC DRIVES
SUB. CODE : PC EE - 701
B.TECH 7TH 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_1 = Heat developed; joules/sec or watts P_2 = 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; m² d = Coefficient of heat transfer; joules/sec/m²/ °C θ = mean temperature rise; °C
 - During a time increment dt , let the machine temperature rise be $d\theta$.
- 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/m²/ °C.

- The 1st order differential equation 5.3. has a solution;

Electric Drives Question Paper Of 7th Sem

Puja Mehta

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The book delves into Electric Drives Question Paper Of 7th Sem. Electric Drives Question Paper Of 7th Sem is an essential topic that must be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Electric Drives Question Paper Of 7th Sem, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Electric Drives Question Paper Of 7th Sem
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 - Chapter 3: Electric Drives Question Paper Of 7th Sem in Everyday Life
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