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Electrical Machine Design

Chapter.1 PRINCIPLES OF ELECTRICAL MACHINE DESIGN

Introduction

The magnetic flux in all electrical machines (generators, motors and transformers) plays an important role in converting or transferring the energy. Field or magnetizing winding of rotating machines produces the flux while armature winding supplies either electrical power or mechanical power. In case of transformers primary winding supplies the power demand of the secondary.

The basic design of an electrical machine involves the dimensioning of the magnetic circuit, electrical circuit, insulation system etc., and is carried out by applying analytical equations.

A designer is generally confronted with a number of problems for which there may not be one solution, but many solutions. A design should ensure that the products perform in accordance with the requirements at higher efficiency, lower weight of material for the desired output, lower temperature rise and lower cost. Also they are to be reliable and durable.

A practical designer must effect the design so that the stock (standard frames, punching etc.,) is adaptable to the requirements of the specification. The designer must also affect some sort of compromise between the ideal design and a design which comply with manufacturing conditions.

A electrical designer must be familiar with the,

a. National and international standards

Indian Standard (IS), Bureau of Indian Standard (BIS), India

British Standard (BS), England

International Electrotechnical Commission (IEC)

NEMA (The National Electrical Manufacturers Association).

b. Specifications (that deals with machine ratings, performance requirements etc., of the consumer)

c. Cost of material and labour

d. Manufacturing constraints etc.

A designer can refer to Design Data Handbook (Electrical Machine Design Data Book, authored by A Shanmugasundaram and others, New Age International Publishers, Reprint 2007, or any other such handbooks) which is a source of design procedure, properties of materials, ranges of design parameters etc., and manufacturer's brochure.

As the design involves a number of assumptions and constraints, final design values can be obtained only by iterative methods. Computer plays a vital role in arriving at the final values. By Finite Element Method (FEM), the effect of a single parameter on the dynamical performance of the machine can be studied. Furthermore, some tests, which are not even feasible in laboratory setup, can be virtually performed by Finite Element Method.

The design problems, that have been considered to solve in the latter chapters, are of different nature from the design worked out in detail in respect of any machine. However, these test



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