

Experiment No:1

To study construction of three phase induction motor

Date:

Competency and Practical Skills:

- 1) Students will be able to describe the construction of three phase Induction motor.
- 2) Students will be able to identify the various parts of Induction Motor from cut section models.
- 3) Students will be able to suggest the applications of Induction Motor.

Relevant CO:

Describe the construction, working principle and applications of induction machines and synchronous machines

- Objectives:**
- (a) To study construction of three phase Induction Motor and its types.
 - (b) To recognize various parts from the cut section model of Induction Motor.

Equipment/Instruments: Cut section model of Induction motor

Theory:

The three phase induction motor is the most widely used electrical motor. Almost 80% of the mechanical power used by industries is provided by three phase induction motors because of its simple and rugged construction, low cost, good operating characteristics, the absence of commutator and good speed regulation. In three phase induction motor, the power is transferred from stator to rotor winding through induction. The induction motor is also called asynchronous motor as it runs at a speed other than the synchronous speed.

Three Phase Induction Motor Construction

Like any other type of electrical motor induction motor, a 3 phase induction motor is constructed from two main parts, namely the rotor and stator:

1. **Stator:** As its name indicates stator is a stationary part of induction motor. A stator winding is placed in the stator of induction motor and the three phase supply is given to it.
2. **Rotor:** The rotor is a rotating part of induction motor. The rotor is connected to the mechanical load through the shaft.

The rotor of the three phase induction motor are further classified as

1. Squirrel cage rotor
2. Slip ring rotor or wound rotor or phase wound rotor.

Depending upon the type of rotor construction used the three phase induction motor are classified as:

1. Squirrel cage induction motor
2. Slip ring induction motor or wound induction motor or phase wound induction motor.

The construction of a stator for both of the kinds of three phase induction motors is identical, and is discussed briefly below.

The other parts of a 3 phase induction motor are:

1. Shaft for transmitting the torque to the load. This shaft is made up of steel.
2. Bearings for supporting the rotating shaft.
3. One of the problems with electrical motor is the production of heat during its rotation. To overcome this problem, we need a fan for cooling.
4. For receiving external electrical connection, terminal box is needed.
5. There is a small distance between rotor and stator which usually varies from 0.4 mm to 4 mm. Such a distance is called air gap.

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Electrical Machines 2 Lab Manual

Karin Nielsen-Saines



Electrical Machines 2 Lab Manual:

Laboratory Manual for Electrical Machines, 2/e D.P. Kothari, B. S. Umre, 2017-11-19 Laboratory Manual for Electrical Machines 2nd edition includes four new experiments in electrical machines so that it can cater to the complete syllabus of undergraduate laboratory courses of electrical machines This book gives the basic information to the students with the machine phenomenon working principles and testing methods etc It also imparts real physical understanding of various types of electrical machines The main attraction of this laboratory manual is its power point presentation for all experiments This manual is meant for electrical engineering students of B E and B Tech and polytechnics

A Laboratory Manual of Organic Chemistry for Beginners Arnold Frederick Holleman, 1913 **Power and Power Transmission** Eugene Wycliffe Kerr, 1914 **Experimental Engineering and Manual for Testing** Rolla Clinton Carpenter, Herman Diederichs, 1913

Electrical Machines Lab Manual with MATLAB Programs D. K. Chaturvedi, 2010-07 **American Horticultural Manual: Comprising the leading principles and practices connected with the propagation, culture, and improvement of fruits, nuts, ornamental trees, shrubs, and plants in the United States and Canada** Joseph L. Budd, Niels Ebbesen Hansen, 1902 **Propellers** Cecil Hobart Peabody, 1912 **Outlines of Human Embryology** George Reese Satterlee, 1914 Sewerage Amory Prescott Folwell, 1912 **A Practical Treatise on Foundations, Explaining Fully the Principles Involved, Supplemented by Articles on the Use of Concrete in Foundations** William Macfarland Patton, 1893 Dairy Technology Christian Larsen, William M. White, 1913 **Subject Guide to Books in Print**, 1991

Suspension Bridges, Arch Ribs and Cantilevers William Hubert Burr, 1913 *The Monthly Cumulative Book Index*, 1907

Vocational-technical Learning Materials Bruce Reinhart, 1974 *Logging* Ralph Clement Bryant, 1913 **Catalogue of the New Hampshire College of Agriculture and the Mechanic Arts** New Hampshire College of Agriculture and the Mechanic Arts, 1916 *The Cumulative Book Index*, 1907 A world list of books in the English language *Electrical World*, 1923 **Elements of Applied Microscopy** Charles-Edward Amory Winslow, 1905

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