

DESIGN AND FABRICATION OF LINEAR INDUCTION MOTOR FOR TRACTION APPLICATION

T.NIREEKSHANA & V. RAMESH BABU

Associate Professor, Department Electrical and Electronics Engineering, VNR Vignana Jyothi
Institute of Engineering and Technology, Hyderabad, India

ABSTRACT

This paper deals with the design and fabrication of basic Linear Induction Motor (LIM), suitable for Traction application. The different concepts of the motor that are in common with other rotating machines, are identified and studied. An Aluminum sheet lay over iron core, acts as the rotor and the stator is designed for Double Layer winding, having 2 poles. The use of Linear Induction Motors (LIM) ranges from slow moving sliding doors to high speed trains across the globe.

KEYWORDS: Linear Induction Motor (LIM), Traction, Design of Stator, Design of Rotor, Design of Windings.