Abstract

This paper investigates different types of faults for electrical machines with reference to an induction motor and to papers published in the last ten years. A comprehensive list of references is reported and the faults are classified into the following main types: 1) Rotor faults; 2) Stator faults; 3) Mechanical faults; 4) Electrical faults. Fault diagnosis of rotating electrical machines has received intense research interest. Therefore many researchers have studied motor-diagnosis methods to prevent sudden stops in motor systems. The development of portable devices that make the reliable diagnosis of faults in electric motors possible has
become a challenge for many researchers and maintenance enterprises. The objective of this paper is to identify various such diagnosis techniques that can be applied for automatic condition monitoring of induction motors and can be extended easily to other electrical machines also.

References


Index Terms

Computer Science

Electric Motor

Keywords