

## **AC MOTOR & AC MOTOR PROTECTION GUIDE**

### **Part-1 of 2**

(Javed Ahmed)

#### **INTRODUCTION**

Intent of this guide is to cover aspects of large capacity AC Motors with the intention of assisting Electrical Engineers who are in the business of dealing with Control & Protection of AC Motors in Industry & Utilities. However, most of AC Motors are covered to some extent.

Simplest and most widely Motor in the World is Squirrel cage Induction Motor. This is because it is most robust and can be highly efficient and less complex in its design and simplest means required for its control. Motors find their application in many areas like locomotion, fans, pumps, control systems, tiny electronic circuitry of wrist watches just to mention a fraction of many.

Therefore, only two types of Motors are considered here. They are Induction Motors & Synchronous Motors.

#### **Induction Motors:**

These Motors are supplied with AC power supply only to its Stator Winding. Stator current produces a flux in the Rotor crossing over the air-gap between the Stator & Rotor. Necessary additional flux required in the Rotor to produce a rotation is obtained by induction principle. Thus energy is transferred from Stator alone to the Motor which results in rotation of the Rotor producing mechanical energy. These Motors are called poly phase or single phase type based on supply voltage to the Stator.

Rotors, however, can be either poly phase type (wound rotor) or bar type bare un-insulated conductors (squirrel cage rotor). In case of Wound rotor Motors, each phase is insulated from the Rotor body and its end is brought out through slip rings for connection to starting control which is stationary system. In case of Squirrel cage rotor, bare conductors are located in slots around the periphery almost parallel to the Rotor linear axis and are shorted at both ends by means compatible metallic ring forming like what looks like a traditional Squirrel cage.

#### **Synchronous Motors:**

These Motors are poly phase with Stator winding almost identical to that of an Induction Motor and is connected to the AC supply source. However, its rotor is also connected to separate supply source, which is a DC source. This DC supply is provided to the Rotor Poles (usually salient poles) which are matching with stator phase winding poles. This DC supply to the Rotor is called field excitation. There are many ways of supplying the Field excitation to the Rotor with or without brush & slip rings. For starting a Synchronous Motor, a number of bar conductors are embedded in the Rotor pole faces. These bars get induced voltages from Stator current and thus Motor rotates on same principle as an Induction Motor. DC

# Guide For Ac Motor Protection

**Puja Mehta**

## Guide For Ac Motor Protection:

**IEEE Guide for AC Motor Protection** ,1976      **IEEE Guide for AC Motor Protection** ,2013      *America National Standard ,1976      An American National Standard Ieee Guide for Ac Motor Protection* American National Standards Institute,1976      **IEEE Draft Guide for AC Motor Protection** ,2012      **C37.96-2012 IEEE Guide for AC Motor Protection** ,      **IEEE Std C37.96-2000** ,2000      **IEEE Guide for AC Motor Protection** IEEE: standards board,1976

**C37.96-2000 IEEE Guide for AC Motor Protection** ,      **IEEE Std C37.96-2000** ,2000      **C37.96-1988 IEEE Guide for AC Motor Protection** ,      **IEEE Guide for AC Motor Protection** IEEE Power & Energy Society. Power System Relaying Committee,Institute of Electrical and Electronics Engineers,IEEE-SA Standards Board,2013 Abstract

Generally accepted methods of protection for ac motors are provided The functions necessary for adequate protection of motors based on type size and application are identified and summarized The protective requirements of all motors in every situation is not purported to be detailed in this guide Keywords ac motor protection adjustable speed drive motor protection IEEE C37.96 induction motor protection microprocessor based motor protection motor motor bus transfer rotating machinery protection synchronous motor protection wound rotor motor protection      Electrical Power System Protection C. Christopoulos,A.

Wright,2013-04-18 The death of Professor Arthur Wright in the summer of 1996 deprived me of a friend and a colleague whose judgement and experience shaped this book I pay tribute to his contributions to protection and electrical engineering education In the five years since the first edition appeared many developments have taken place and it is now necessary to update the book The use of digital communications and advanced signal processing techniques is now widespread and several fully numeric relays are available from manufacturers Two new Chapters 13 and 14 have been added to introduce readers to these concepts and associated techniques Artificial intelligence is making its impact in all engineering applications and power system protection is no exception Expert systems fuzzy logic artificial neural networks adaptive and integrated protection synchronized measurements using the global positioning system genetic algorithms flexible ac transmission systems are some of the techniques considered in connection with protection Although many of these techniques have not yet found major application in protection it is nevertheless essential for the educated protection engineer to have a basic understanding of the underlying principles and methodology so that he or she can evaluate their suitability for new relaying problems and applications Chapter 15 was therefore added to guide readers through this developing area I have also added some new material in other chapters to reflect changes over the past years      Electrical Power System Protection A.

Wright,C. Christopoulos,2012-12-06 Electrical Power System Protection provides practising engineers with the most up to date and comprehensive one volume reference and tutorial on power system protection available Concentrating on fundamental methods and technology and with extensive examples drawn from current practice internationally this book will be a major reference tool for engineers involved with and affected by power system protection      **IEEE Std C37.96-2012**

**(Revision of IEEE Std C37.96-2000) - Redline ,2013      IEEE Std 588-1976 (ANSI C37.86-1975) (Revision of IEEE Std 288-1969 and IEEE Std 328-1971): IEEE Guide for AC Motor Protection ,      IEEE PC37.96/D11, August 2012 ,2012**      Protective Relaying Walter A. Elmore,2003-09-09 Targeting the latest microprocessor technologies for more sophisticated applications in the field of power system short circuit detection this revised and updated source imparts fundamental concepts and breakthrough science for the isolation of faulty equipment and minimization of damage in power system apparatus The Second Edition clearly describes key procedures devices and elements crucial to the protection and control of power system function and stability It includes chapters and expertise from the most knowledgeable experts in the field of protective relaying and describes microprocessor techniques and troubleshooting strategies in clear and straightforward language      Industrial Power Systems Shoaib Khan,Sheeba Khan,Ghariani Ahmed,2018-10-03 The modernization of industrial power systems has been stifled by industry s acceptance of extremely outdated practices Industry is hesitant to depart from power system design practices influenced by the economic concerns and technology of the post World War II period In order to break free of outdated techniques and ensure product quality and continuity of operations engineers must apply novel techniques to plan design and implement electrical power systems Based on the author s 40 years of experience in Industry Industrial Power Systems illustrates the importance of reliable power systems and provides engineers the tools to plan design and implement one Using materials from IEEE courses developed for practicing engineers the book covers relevant engineering features and modern design procedures including power system studies grounding instrument transformers and medium voltage motors The author provides a number of practical tables including IEEE and European standards and design principles for industrial applications Long overdue Industrial Power Systems provides power engineers with a blueprint for designing electrical systems that will provide continuously available electric power at the quality and quantity needed to maintain operations and standards of production      IEEE Standards Institute of Electrical and Electronics Engineers,1994

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