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A Relay Technician ' s Approach to

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## Protection

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## Protection for Fuses

Induction Machine Part III - Motor  
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Calculations # Power System Operati  
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Guide For Generator Protection

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This guide identifies and summarizes the functions necessary for adequate protection of motors based on type, size, and application. This guide does not purport to detail the protective requirements of all motors in every situation. Superseded. IEEE

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C37.102-1995 - IEEE Guide for  
AC Generator Protection.

IEEE C37.102-2006 - IEEE Guide  
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review of the generally accepted

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Protection forms of relay protection for the synchronous generator and its excitation system is presented. This guide is primarily concerned with protection against faults and abnormal operating conditions for large hydraulic, steam, and combustion turbine generators.

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IEEE C37.102-1995 - IEEE Guide  
for AC Generator Protection

C37.102-2006 - IEEE Guide for  
AC Generator Protection Abstract:  
A review of the generally accepted  
forms of relay protection for the  
synchronous generator and its



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Protection system is presented.

This guide is primarily concerned with protection against faults and abnormal operating conditions for large hydraulic, steam, and combustion turbine generators.

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## AC Generator Protection

Standard Details This guide has been prepared to aid in the application of relays and relaying schemes for the protection of synchronous generators for single-phase-to-ground faults in the stator winding. The guide is not

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Protection intended for the selection of generator or ground connection schemes.

IEEE C37.101-1985 - IEEE Guide for Generator Ground Protection  
IEEE Guide for Generator Ground Protection. Abstract: This guide

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Protection has been prepared to aid in the application of relays and relaying schemes for the protection of synchronous generators for single-phase-to-ground faults in the stator winding. The guide is not intended for the selection of generator or ground connection

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Protection. The information included in the main body is limited to those generator connections, grounding practices, and protective schemes generally used in North America.

C37.101-1985 - IEEE Guide for  
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**Abstract:** A review of the generally accepted forms of relay protection for the synchronous generator and its excitation system is presented. This guide is primarily concerned with protection against faults and abnormal operating conditions for

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large hydraulic, steam, and  
combustion turbine  
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**Protection** Abstract: A review of the generally accepted forms of relay protection for the synchronous generator and its excitation system is presented. This guide is primarily concerned with protection against faults and abnormal operating conditions for



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Protection  
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Abstract: The guide is intended to  
assist protection engineers in  
applying relays and relaying

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**Protection** for protection against stator ground faults on various generator grounding schemes. The existing guide is outdated due to rapid technology development. Hence, the revised guide includes new stator ground protection principles that have evolved with

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Protection  
the use of new technologies in  
relay designs.

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Protection - C37.106:  
IEEE Guide for Abnormal  
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Unit Connected Generator

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(C37.102) Unit Connected,

Fundamentals and Application -  
IEEE Web Hosting

- Common practice to provide protection for faults outside of the generator zone of protection •
- Voltage supervised time-

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overcurrent (51V) or distance relaying (21) may be used • Distance relay set to include generator step up transformer and reach beyond, into the system • Time delays must be coordinated with those of the system protection to assure that system

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Protection will operate before back up • CTs on neutral side of generator will also provide backup protection for the generator

Ch 11 - Generator Protection - My  
Protection Guide - My ...  
Generator Protection 17 Power-

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**Protection** is a branch of electrical power engineering that deals with the protection of electrical power systems from faults through the disconnection of faulted parts from the rest of the electrical network. Device Function Numbers (ANSI C37.2)



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## Fundamentals of Generator Protection

A review of the generally accepted forms of relay protection for the synchronous generator and its excitation system is presented.

This guide is primarily concerned

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Protection against faults and abnormal operating conditions for large hydraulic, steam, and combustion-turbine generators.

IEEE C37.102-1987 - IEEE Guide  
for AC Generator Protection

This guide identifies and

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**Protection** summarizes the functions necessary for adequate protection of motors based on type, size, and application. This guide does not purport to detail the protective requirements of all motors in every situation.

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Industrial and Commercial Power  
Systems IEEE Std  
C37.91-2008 IEEE Guide for  
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Protection  
Power Transformers IEEE Std  
C37.95-2002 (R2007)

Power System Protective Relays:  
Principles & Practices  
Transformer Protection  
Application Guide This guide  
focuses primarily on application of

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Protection relays for the protection of power transformers, with an emphasis on the most prevalent protection schemes and transformers.

Transformer Protection  
Application Guide - IEEE Web



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IEEE Guide for Generator Ground Protection The guide is intended to assist protection engineers in applying relays and relaying schemes for protection against stator ground faults on various generator grounding schemes. The

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Existing guide is out-dated due to rapid technology development.

Generator Protection - IEEE  
Conferences, Publications, and ...  
guide for abnormal frequency  
protection for power generating  
plants: ieee c50.13 : 2014 :

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Cylindrical-rotor 50 Hz and 60 Hz,  
synchronous generators rated 10  
MVA and above: IEEE C37.101 :  
2006 : generator ground  
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for operation and maintenance of  
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