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Free Guide For Generator Protection

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

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turbine generators.

IEEE C37.102-2006 -
IEEE Guide for AC
Generator Protection

**IEEE C37.102-2006 -
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Generator
Protection**

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

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system is presented.

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

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

Standard Details This guide has been prepared to aid in the

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IEEE Guide For

Generator Protection
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 schemes.

IEEE C37.101-1985 - IEEE Guide for Generator Ground Protection

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review of the generally
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ANSI/IEEE Standards
Generator Protection
35 These are

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created/maintained by
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IAS Typical Unit
Connected Generator
(C37.102) Unit
Connected,

Fundamentals and Application - IEEE Web Hosting

Generator Protection
17 Power-system
protection is a branch
of electrical power
engineering that deals
with the protection of
electrical power

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systems from faults through the disconnection of faulted parts from the rest of the electrical network. Device Function Numbers (ANSI C37.2)

Fundamentals of Generator Protection

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

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supervised time-
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
protection will operate
before back up • CTs
on neutral side of
generator will also

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provide backup
protection for the
generator

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

A review of the
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Guide for Abnormal
Frequency Protection
for Power Generating
Plants IEEE Std
C37.108-2002 (R2007)
IEEE Guide for the
Protection of Network
Transformers IEEE Std
C37.109-2006 IEEE
Guide for the
Protection of Shunt
Reactors

**Power System
Protective Relays:**

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**Principles &
Practices**

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GENERATOR PROTECTION THEORY & APPLICATION

IEEE C37.102-2006 -

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

IEEE C37.96-2000 - IEEE Guide for AC Motor Protection

(IEEE C37.90, "Guide for Protective Relay Applications to Power Transformers, Ref. 1).

... former protection, and Ref. 4, another IEEE standard, includes

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good overall protection schemes where a transformer is the interface ... generator backfeeding a 115kV fault.

**Transformer
Protection
Application Guide -
IEEE Web Hosting**
Generator Protection -
Setting Calculations
Nameplate 10%
continuous capability
of stator rating (125
MVA), the same as that

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Generator

stipulated in ANSI/IEEE C37.102. The K factor is 30. Set Inverse Time Element for Trip Pick-up for tripping the unit (Inverse Time) = 9%
 $K=29$ Definite
Maximum time =
65,500 cycles.

Generator protection calculations settings

decayed below relay pickup. After 0.5 s or more, generator fault current will be

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determined by machine synchronous reactance and the current magnitude could be well below generator rated full-load current, which would be below the relay setting.” IEEE C37.102-2006 – Guide for AC Generator Protection, Section 4.6.1.2

**System Protection
and Control
Subcommittee**

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