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Relay Setting
Calculation
Relay
Setting
Calculation
Guide

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Relay Setting Calculation

~~Relay setting
calculation | IDMT re
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rical Technology
and Industrial
Practice | Differential
Relay for Power
Transformer (87T)~~

D1 Differential
Protection: Basics

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~~Relay setting #1~~

~~Transformer~~

~~Differential~~

~~Protection~~

~~Transformer~~

~~Protection in~~

~~Easy Power How to~~

~~Draw Slope from~~

~~Differential relay~~

~~setting why we use~~

~~slope in differential~~

~~relay Relay setting~~

~~calculation|Restricted~~

~~Earth Fault~~

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~~Protection relay
Setting Part 1|CT
selection
Transformer~~

~~Differential~~

~~Protection:~~

~~Challenges and~~

~~Solutions RELAY~~

~~SETTINGS AND CO~~

~~ORDINATION|PART~~

~~1_PHASE~~

~~FAULT|ELECTRICAL~~

~~TECHNOLOGY AND~~

~~INDUSTRIAL~~

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~~PRACTICE SGP406~~

~~Calculation of CT
Ratios of Current
Transformers for
Differential~~

~~Protection~~

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CAL TECHNOLOGY
AND INDUSTRIAL
PRACTICE~~

~~protection relays
used in substation |
Relay | protection~~

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Differential
protection
OVERCURRENT
RELAY SETTING
CALCULATION

~~Differential Relay
Test | Omicron OCC
File Preparation
MiCOM P632 |
Slope Pickup Trip
Time Harmonics
Transformer
Overcurrent
Protection 450.3~~

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~~(7min;7sec) How
Buchholz Relays
Work Time Current
Curve Basics:~~

Determining Circuit
Breaker Trip Times
basic theory of REF
protection in
transformers
Protection
Coordination
Tutorial Part 1
Difference between
Lightning arrester

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and surge arrester Differential Relay Setting Calculation protection in power transformer

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Earth Fault
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POINT VOLTAGE
Relay Setting
Calculation/ Relay
Coordination. 17 -
Testing basics on

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Protection
differential relay
Relay Setting
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Calculation
Differential Relay
testing | and | how
to create slope on
Omicron kit | RET
ABB RELAY
~~Differential~~
~~protection of power~~
~~transformers |~~
~~Differential~~
~~protection | basic~~
~~knowledge in Urdu~~

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Transformer

Transformer Series

Part 2 - Calculating the Primary and Secondary

Overcurrent Protection

Differential protection of transformer

Transformer Protection Relay Setting Calculation

Relay Pickup current (Primary) =

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Protection (PSM)

* Rated CT Primary
Relay Setting
Calculation
current. Relay pick
up current Primary

side = $1.05 * 600$
= 630A. Case-2 for
New CT: New CT
Ratio- 800/5A. We
have calculated
New PSM = 0.7875.

Relay pick up
current Primary
side = $0.7875 * 800$
= 630A

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PSM and TMS
Relay Setting
Settings

Calculation of a
Relay: Protection
Tap Compensation
Equation The
transformer MVA
rating is 33MVA
while the voltage
rating is 23kV.

Using a CT ratio of
240, the TAP
setting value is

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3.45Amps
secondary for the
wye side. Delta
side TAP setting
value can be
calculated using a
CT ratio of 80.

Basic Transformer
Differential
Protection
Calculation ...
Relay Settings
Calculations. This

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Protection report refers to the electrical protection of all 132kV switchgear. These settings may be re-evaluated during the commissioning, according to actual and measured values. Protection selectivity is partly considered in this

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Protection and could be
also re-evaluated.

Names of
parameters in this
calculation may
differ from those in
the appropriate
device.

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Calculations -
Electrical
Engineering
Transformer

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Protection relay
calculations. March
2020; DOI: 10.1314
0/RG.2.2.28771.91
687.... Based on
an analysis of the
mode of off-line
setting calculation
in relay protection,
the concept of on
...

(PDF) Transformer
protection relay

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Protection

Relay setting
calculations for the
primary substation
and Remote end
grid stations ...

PHASE OVER

CURRENT & EARTH
FAULT

PROTECTION OF
20MVA, 33/11KV

TRANSFORMER

FEEDER. 27. 3.11.

PHASE OVER

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CURRENT & EARTH
FAULT
PROTECTION OF
33KV BUS
COUPLER. 29. 3.12.

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Generating
Authority of
Thailand. TYPE OF
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EGAT... Note *

High side ground
overcurrent for Tie
Transformer only

RELAY SETTING

CRITERIA. 2. Phase
and Ground

Overcurrent Relay
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Protection Relay
Setting as

computation of
transformer setup
settings with

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Protection
Relay Setting
Calculation
standard and non-
standard phase
shift are covered.

Scott Transformer
Protection Relay
Setting Calculation
Guide

Relay Settings
Calculations This
technical report
refers to the
electrical
protection of all

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132kV switchgear. These settings may be re-evaluated during the commissioning, according to actual and measured values. Protection selectivity is partly considered in this report and could be also re-evaluated.

Transformer Relay

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From current setting we calculate the trick current of the relay. Say current setting of the relay is 150 % therefore pick up current of the relay is $1 \times 150\% = 1.5 \text{ A}$.

Step-3 Now we

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Protection
Relay Setting
Calculation
Guide

have to calculate PSM for the specified faulty current level. For that, we have to first divide primary faulty current by CT ratio to get relay faulty current.

Pick Up Current |
Current Setting |
Plug Setting ...

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(1) Low over
Current Setting:
(I>) Over Load
Current (In) =
Feeder Load
Current X Relay
setting = 384 X
125% = 480 Amp
Required Over
Load Relay Plug
Setting = Over Load
Current (In) / CT
Primary Current
Required Over

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Protection Plug
Setting = $480 / 600$
= 0.8 Pick up
Setting of Over
Current Relay
(PMS) ...

Calculate IDMT
over Current Relay
Setting (50/51 ...
Calculate LT & HT
Side Actual
Operating Time of
Relay($t_{e>>}$)

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Calculation
Guide

Calculate
Differential
Protection Relay
setting: Calculate
Percentage
Differential Current
at Normal tapping;
Calculate
Percentage
Differential Current
at Highest tapping;
Calculate
Percentage
Differential Current

Read Free Transformer at Lowest tapping (25) Size of Transformer's Circuit Breaker & Fuse ...

Electrical MS Excel
Spreadsheets
(Calculations of
cables ...

Transformer
Protection
Application Guide
This guide focuses

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primarily on
application of
protective relays
for the protection
of power

transformers, with
an emphasis on the
most prevalent
protection schemes
and transformers.

Principles are
emphasized.

Setting procedures
are only discussed

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Transformer
Protection
Application Guide
 $I_d = I_{1s} - I_{2s}$ In
principle, this basic
approach of a di
fferential
protection scheme
is implemented
using an

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overcurrent relay placed in the differential current path formed by the two current transformer secondary circuits.

Application and Setting Guide - ABB
The relay will now use 30% of this ITOT to derive its actual restraint

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Protection, i.e. $I_{rest} = 0.3 \times 0.5 = 0.15A$
(see point P on the restraint characteristic).

Now if $I_{DIFF} > 0.15A$ relay operation results. Alternatively, 0.15A is the minimum diff current required for relay operation if the system loading is 0.5A (sec).

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Principles of
Differential

Relaying - My

Protection Guide

3 : Model setting ca
lculations-

Transformer 1-132

4 : Model setting
calculations- Shunt

Reactor 1-120 5 :

Model setting
calculations-

Busbar 1-15 6 :

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Relay Setting
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for protection
system
management 1-5 8
: Check list for
audit of fault
clearance system
1-16

MODEL SETTING

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CALCULATIONS
FOR TYPICAL IEDs
LINE ...

The power system, transformer, and CTs all influence the application of the Percent Differential element. The T60 Percent Differential element has trip/restrain characteristic

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Protection
defined through
relay settings by a
pickup, two slopes,
and two associated
breakpoints.

T60 Percent
Differential
Calculations
2.3 Procedure for
Relay Setting of
Transformer
Differential Relay
KBCH Data

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Required MVA
Rating Voltage
ratio Vector group
HV voltage LV
voltage

Transformer
percentage
impedance:
Transformer vector
group: OLTC Tap:
+% OLTC Tap: -%
CT ratio and
winding
configuration HV

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side LV side At
Normal tap HV Side
full load current =
$$\text{MVA} / \sqrt{3} * \text{kV}$$
 Current
on CT Secondary
$$I_{ct} \text{ (HV)} = \text{Rated Current (HV Side)} / \text{CT Ratio (HV Side)}$$

$$N1 = \text{Required ratio compensation} = 1 / I_{ct} \text{ sec}$$
 Assuming
Relay current = 1A
N1 is set ...

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Protection-
for-differential-
Relay Setting
relays
Calculation

Therefore $I_{d} > 0.1$ or
10% Let put a 2%

margin the it is

12%. b) Slope 1:

Assume type A

relay ($I_{TOT} = I_{res}$):

$$K1 = I_{dif} / I_{res} = 0.1 / 0.5 * (0.555 + 0.655)$$

$$= 0.17 \text{ or } 17\% \text{ then}$$

a 20% setting is

good. C) Turning

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Point 2, ITP2 Slope
1 dictates the relay
restraint
characteristic over
the load current
range of the
transformer.

Unit Protection
Differential Relays -
Real
Relay Settings
Transformer.
Hands On Relay

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Testing Session
SEL Home. Setting
the generator
protective relay
functions EEP. ...
Protection Relay
Setting Calculation
For 66 11 KV
SUBSTATION KTS
WEST Proj No
8765002300"an
investigation into
idmt relays and
overcurrent april

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Protection - 5 3

advantage of idmt
relays 11 5 4

calculation of tm

12 6

Relay Setting
Calculation -
Maharashtra
If the operate
current is above
the percentage
differential setting
threshold, the relay

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will issue a trip
command.

Transformer
Differential

Protection Setting
Calculation .

Transformer
Differential

Protection Scheme
works by using two
separate quantities
calculated from the
primary current
(I_{W1C}) and

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