

## Short Circuit Current Calculation (Method – 1)

Name Plate Impedance of Transformer	-	Z %
Short Circuit Current of Transformer	-	$I_{sc}$
Supply Test Voltage (3 Phase)	-	$V_{supply}$ (Volt)
Rated Primary Current of Transformer	-	$I_{pri}$
Rated Primary Voltage of Transformer	-	$V_{pri}$ (kV)

$$\text{Average Supply Voltage} \quad V_{supply} = \frac{V_{Ry} + V_{RB} + V_{yB}}{3}$$
$$I_{sc} = \frac{10\% V_{supply} \times I_{pri}}{V_{pri} \text{ (kV)} \times Z \%}$$

Example for 33/11 kV, 10 MVA (Supply Test Voltage = 400 Volt)

$$\begin{aligned} 10\% \text{ of } V_{supply} &= 400 \times 10/100 = 40 \text{ V} \\ I_{pri} &= 175 \text{ Amp} \\ V_{pri} \text{ (kV)} &= 33 \text{ kV} \\ Z \% &= 9 \% \end{aligned}$$

$$I_{sc} = \frac{10\% V_{supply} \times I_{pri}}{V_{pri} \text{ (kV)} \times Z \%}$$
$$I_{sc} = \frac{40 \times 175}{33 \times 9}$$
$$I_{sc} = 23.569 \text{ Amp}$$
$$Z \% = \frac{10\% V_{supply} \times I_{pri}}{V_{pri} \text{ (kV)} \times I_{sc}}$$

# Transformer Short Circuit Current Calculation And Solutions

**Emilie Sanchez**



## **Transformer Short Circuit Current Calculation And Solutions:**

*Short-circuit calculations and steady-state theory* Otto Gustav Colbiornsen Dahl,1928      **General Electric Review**  
General Electric Company,1919      **Electrical Machines & Power Systems (Problems With Solutions)** C S  
Indulkar,2012 This book contains problems in Electrical Machines Power Systems Problems with Solutions I have used these  
and other problems in the class room for many years In most of the solutions I have deliberately avoided giving theoretical  
explanations because an average student should know the theyr well before attempting to solve any proble However in each  
chapter I have provided a brief introduction related to the chapter so that students are made aware of the contents of the  
chapter before reading the problems and their solutions The introduction related to each chapter contains Objective type  
Questions and their answers The introductions contains brief notes on the topics of the chapters and also include Indian  
Standards for testing and maintenance of substation equipments transformer overhead lines underground cables and  
materials      **Transactions of the American Institute of Electrical Engineers** ,1923      *Electric Circuits* Otto Gustav  
Colbiornsen Dahl,1928      **Modeling and Application of Electromagnetic and Thermal Field in Electrical**  
**Engineering** Zhiguang Cheng,Norio Takahashi,Behzad Forghani,2019-12-03 Co authored by an international research group  
with a long standing cooperation this book focuses on engineering oriented electromagnetic and thermal field modeling and  
application It presents important contributions including advanced and efficient finite element analysis used in the solution of  
electromagnetic and thermal field problems for large and multi scale engineering applications involving application script  
development magnetic measurement of both magnetic materials and components under various even extreme conditions  
based on well established standard and non standard experimental systems and multi level validation based on both  
industrial test systems and extended TEAM P21 benchmarking platform Although these are challenging topics they are useful  
for readers from both academia and industry      **Journal of the American Institute of Electrical Engineers** American  
Institute of Electrical Engineers,1922 Includes preprints of Transactions of the American Institute of Electrical Engineers  
ISSN 0096 3860      *The Proceedings of the 11th Frontier Academic Forum of Electrical Engineering (FAFEE2024)* Qingxin  
Yang,Jian Li,2024-12-09 This book contains the original and refereed research papers presented at the 11th Frontier  
Academic Forum of Electrical Engineering FAFEE 2024 held in Chongqing China Topics covered include Power System and  
New Energy Motors and Systems Power Electronics and Electrical Drives High Voltage and Discharge Electrical Energy  
Storage and Application New Electrical Materials Advanced Electromagnetic Technology The papers share the latest findings  
in the field of electrical engineering making the book a valuable asset for researchers engineers and university students etc  
*Transactions of the American Institute of Electrical Engineers* American Institute of Electrical Engineers,1922 List of  
members in v 7 15 17 19 20      **Japanese Journal of Engineering** ,1921      **Computer-Aided Power System Analysis**  
Ramasamy Natarajan,2002-04-03 This title evaluates the performance safety efficiency reliability and economics of a power

delivery system It emphasizes the use and interpretation of computational data to assess system operating limits load level increases equipment failure and mitigating procedures through computer aided analysis to maximize cost effectiveness

**Japanese Journal of Engineering. Abstracts** ,1921 New Solutions for Smart Grids With High-Penetration Distributed Energy Resources Yang Li,Liang Chen,Chao Long,2022-02-17 ELECTRICAL POWER SYSTEMS P. VENKATESH,B. V. MANIKANDAN,S. CHARLES RAJA,A. SRINIVASAN,2012-04-03 This textbook introduces electrical engineering students to the most relevant concepts and techniques in three major areas today in power system engineering namely analysis security and deregulation The book carefully integrates theory and practical applications It emphasizes power flow analysis details analysis problems in systems with fault conditions and discusses transient stability problems as well In addition students can acquire software development skills in MATLAB and in the usage of state of the art software tools such as Power World Simulator PWS and Siemens PSS E In any energy management operations control centre the knowledge of contingency analysis state estimation and optimal power flow is of utmost importance Part 2 of the book provides comprehensive coverage of these topics The key issues in electricity deregulation and restructuring of power systems such as Transmission Pricing Available Transfer Capability ATC and pricing methods in the context of Indian scenario are discussed in detail in Part 3 of the book The book is interspersed with problems for a sound understanding of various aspects of power systems The questions at the end of each chapter are provided to reinforce the knowledge of students as well as prepare them from the examination point of view The book will be useful to both the undergraduate students of electrical engineering and postgraduate students of power engineering and power management in several courses such as Power System Analysis Electricity Deregulation Power System Security Restructured Power Systems as well as laboratory courses in Power System Simulation **Engineering Journal** ,1919 Vol 7 no 7 July 1924 contains papers prepared by Canadian engineers for the first World power conference July 1924 The Journal of the Engineering Institute of Canada Engineering Institute of Canada,1919 **The Electric Journal** ,1927 Electrical Engineering ,1913 **SNTL Technical Digest** ,1962 **Theory and Calculation of Transient Electric Phenomena and Oscillations** Charles Proteus Steinmetz,1909

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the problem, but six ...