

TECHNICAL SPECIFICATION



**Shunt capacitors for AC power systems having a rated voltage above 1 000 V –
Part 3: Protection of shunt capacitors and shunt capacitor banks**

Iec Standard 60871

British Standards Institute Staff



Iec Standard 60871:

Power System Capacitors Ramasamy Natarajan, 2018-10-03 Since transmitting reactive power over long distances is not feasible power systems integrate power factor correction capacitors to provide local reactive power compensation. With a wide range of options available and with the tremendous changes that have occurred over the past few decades a comprehensive up to date book on power factor capacitors is long overdue. *Power System Capacitors* fills this void by providing the fundamentals, applications, protection issues and system impacts for a broad spectrum of capacitor applications. *Power System Capacitors* guides you through the practical installations with easy to follow step by step instructions. The author describes the fundamentals of capacitors focused on the power factor correction industry standards, capacitor specifications, protection of shunt capacitors, maintenance of capacitor banks and system impact issues. He also discusses the selection of supporting equipment such as fuses, circuit breakers and surge arresters. Includes more than 290 illustrations, 90 tables and 400 equations and explains how to perform an economic analysis. Offering up to date computer aided analysis approaches along with fundamental concepts, maintenance concerns and economic analysis. *Power System Capacitors* steers you through the selection, design, installation and maintenance of power factor correction capacitors used in modern power systems. This is a valuable tool for any power system engineer in industry, utilities, consulting and practical power system evaluation.

Electrical Codes, Standards, Recommended Practices and Regulations Robert J. Alonzo, 2009-12-21 Electrical codes, standards, recommended practices and regulations can be complex subjects yet are essential in both electrical design and life safety issues. This book demystifies their usage. It is a handbook of codes, standards, recommended practices and regulations in the United States involving electrical safety and design. Many engineers and electrical safety professionals may not be aware of all of those documents and their applicability. This book identifies those documents by category allowing the ready and easy access to the relevant requirements. Because these documents may be updated on a regular basis this book was written so that its information is not reliant on the latest edition or release of those codes, standards, recommended practices or regulations. No single document on the market today attempts to not only list the majority of relevant electrical design and safety codes, standards, recommended practices and regulations but also explain their use and updating cycles. This book one stop information center for electrical engineers, electrical safety professionals and designers does. Covers the codes, standards, recommended practices and regulations in the United States involving electrical safety and design providing a comprehensive reference for engineers and electrical safety professionals. Documents are identified by category enabling easy access to the relevant requirements. Not version specific information is not reliant on the latest edition or release of the codes, standards, recommended practices or regulations.

Power Systems Harmonics George J. Wakileh, 2019-06-12 The industry's widespread application of variable speed drives in the recent years accompanied by the electric utility's increasing use of capacitor banks have set the basis for paying considerable attention to the quality of electric power and seriously

addressing the issue of current and voltage distortion a major form of which is harmonic distortion Harmonic studies are aimed at computing bus harmonic voltages branch harmonic currents and voltage and current total harmonic distortion THD as well as detecting resonance conditions It is thus of great importance when conducting harmonic studies that system components are correctly modelled to ensure accurate and reliable harmonic distortion results Commercial programs are available for the analysis of harmonic problems International standards are further being developed to assess harmonic distortion Chapter 2 of this text provides some preliminaries Characteristics of harmonics and measures of harmonic distortion are illustrated The use of capacitor banks for reactive power supply and power factor correction is discussed Resonance is explained Origins of harmonic distortion are dealt with in Chapter 3 Chapter 4 is aimed at quantifying the effects of harmonic distortion on power system equipment and loads Chapter 5 is devoted to the methods of reduction of power system harmonics Limits of allowable voltage and current harmonic distortion set by IEEE IEC EN and NORSOK standards are presented in Chapter 6

Industrial Power Engineering Handbook KC Agrawal, 2001-10-08 Never before has so much ground been covered in a single volume reference source This five part work is sure to be of great value to students technicians and practicing engineers as well as equipment designers and manufacturers and should become their one stop shop for all information needs in this subject area This book will be of interest to those working with Static Drives Static Controls of Electric Motors Speed Control of Electric Motors Soft Starting Fluid Coupling Wind Mills Generators Painting procedures Effluent treatment Electrostatic Painting Liquid Painting Instrument Transformers Core Balanced CTs VTs Current Transformers Voltage Transformers Earthquake engineering Seismic testing Seismic effects Cabling Circuit Breakers Switching Surges Insulation Coordination Surge Protection Lightning Over voltages Ground Fault Protections Earthing Earth fault Protection Shunt Capacitors Reactive control Bus Systems Bus Duct Rising mains A 5 part guide to all aspects of electrical power engineering Uniquely comprehensive coverage of all subjects associated with power engineering A one stop reference resource for power drives their controls power transfer and distribution reactive controls protection including over voltage and surge protection maintenance and testing electrical engineering

High Voltage DC Transmission Systems Bjarne R. Andersen, Stig L. Nilsson, 2025-12-26 This comprehensive guide explores every stage of an HVDC project from identifying the need for a scheme through to final decommissioning It includes discussions of Comparisons between AC and HVDC transmission systems Integration of HVDC systems into AC networks Suggested planning and important scoping studies Cost benefit analysis and project specifications Environmental considerations and operational requirements Detailed component descriptions and Project commissioning implementation and lifetime reliability monitoring The book describes current AC to DC and DC to AC conversion technologies their application within HVDC systems and the challenges and advantages they present This thorough and comprehensive analysis makes High Voltage DC Transmission Systems ideal for electrical engineers new to HVDC as well as those seeking deeper expertise Readers who

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IEEE Transmission and Distribution Conference and Exposition ,2001 Proceedings ,2002 *Catalogue* Bureau of Indian Standards,2010 **Capacitors** R. P. Deshpande,2014-12-01 A state of the art guide to capacitors and their applications This practical resource provides a comprehensive overview of capacitor technology and its evolution to keep pace with the emerging electrical and electronics industry Computers mobile devices power supplies automobiles and other systems are consuming unprecedented quantities of capacitors This book discusses capacitor physics raw materials and the latest manufacturing processes and describes how to select appropriate products for specific applications Testing methods to ensure optimum capacitor performance are also included in this cutting edge reference *Capacitors* covers Introduction to capacitors Properties of dielectrics Polypropylene and polyester film Metallized films Types of capacitors Power factor correction capacitors Switching of capacitors Harmonics in power systems Power quality management Electrolytic capacitors Ceramic capacitors Mica capacitors Ultracapacitors the future of energy storage Auto ignition and CDI capacitors Electronic grade capacitors Capacitors for RFI suppression Energy storage and pulse capacitors Application in electronic circuits Capacitors for power electronics Manufacture of paper plastic film capacitors Selection guide for capacitors Capacitor failures and their mitigation **Compliance Engineering** ,2006 ESMO ... Proceedings ,2000 Science Abstracts ,1995 **Annual Report** Central Power Research Institute (India),1999 **Thomas Register of American Manufacturers** ,2003 Vols for 1970 71 includes manufacturers catalogs IEC Standard Current Ratings British Standards Institute Staff,1999-10 Electric current Ratings Rated current Electrical equipment Electric power systems Measuring instruments Electrically operated devices *IEC Standard Frequencies* International Electrotechnical Commission,International Electrotechnical Commission. Technical Committee 8,2009 **IEC Standard for Signal and Test Definition** ,2007 **IEC standard voltages** International Electrotechnical Commission,2009

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