Iec 60364 5 52

Guidance Note 1
Selection & Erection
instalaciones eléctricas en edificios. Parte 5, Elección e instalación de materiales eléctricos. Capítulo 52, Canalizaciones
Grundlagen und Anwendung in der Gebäudeplanung
Dziennik ustaw Rzeczypospolitej Polskiej
Electrical Articles & Notes
Fundamentals of Electric Power Engineering
CEI/IEC 60364-5-52
Bibliografía española
Planning Guide for Power Distribution Plants
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An Engineer's Field Guide
Electrical Installations Handbook
Principles of Electrical Safety
An Introduction to Safety Grounding
Power System Transients
A Practical Guide and Commentary on NEC and IEC 60364
Electrical Notes
IEC 60364-5-52 Low-voltage Electrical Installations
Analysis and Design of Low-Voltage Power Systems
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Cyber-Physical Systems: Design and Application for Industry 4.0
Power System Simulation, Control and Optimization
International Standard
Elektrische kabels en leidingen
UF0886 - Prevención de riesgos laborales y medioambientales en el montaje y mantenimiento de instalaciones eléctricas
Analysis and Design of Electrical Power Systems
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Electrical Installation Guide

VALENCIA BURGESS

Guidance Note 1 CRC Press
=3 No's of Volume,Total 725 Pages (more than 138 Topics) in PDF format with watermark on each Page. =soft copy in PDF will be delivered. Part-1 :Electrical Quick Data Reference: Part-2 :Electrical Calculation Part-3 :Electrical Notes: Part-1 :Electrical Quick Data Reference: 1 Measuring Units 7 2 Electrical Equation 8 3 Electrical Thumb Rules 10 4 Electrical Cable & Overhead Line Bare Conductor Current Rating 12 Electrical Quick Reference 5 Electrical Quick Reference for Electrical Costing per square Meter 21 6 Electrical Quick Reference for MCB / RCCB 25 7 Electrical Quick Reference for Electrical System 31 8 Electrical Quick Reference for D.G set 40 9 Electrical Quick Reference for HVAC 46 10 Electrical Quick Reference for Ventilation / Ceiling Fan 51 11 Electrical Quick Reference for Earthing Conductor / Wire / Strip 58 12 Electrical Quick Reference for Transformer 67 13 Electrical Quick Reference for Current Transformer 73 14 Electrical Quick Reference for Capacitor 75 15 Electrical Quick Reference for Cable Gland 78 16 Electrical Quick Reference for Demand Factor-Diversity Factor 80 17 Electrical Quick Reference for Lighting Density (W/m2) 87 18 Electrical Quick Reference for illuminance Lux Level 95 19 Electrical Quick Reference for Road Lighting 126 20 Electrical Quick Reference for Various illuminations Parameters 135 21 Electrical Quick Reference for IP Standard 152 22 Electrical Quick Reference for Motor 153 23 Electrical Quick Reference O/L Relay , Contactor for Starter 155 24 Electrical Quick Reference for Motor Terminal Connections 166 25 Electrical Quick Reference for Insulation Resistance (IR) Values 168 26 Electrical Quick Reference for Relay Code 179 27 Standard Makes & IS code for Electrical Equipment's 186 28 Quick Reference for Fire Fighting 190 29 Electrical Quick Reference Electrical Lamp and Holder 201 Electrical Safety Clearance 30 Electrical Safety Clearances-Qatar General Electricity 210 31 Electrical Safety Clearances-Indian Electricity Rules 212 32 Electrical Safety Clearances-Northern Ireland Electricity (NIE) 216 33 Electrical Safety Clearances-ETSA Utilities / British Standard 219 34 Electrical Safety Clearances-UK Power Networks 220 35 Electrical Safety Clearances-New Zealand Electrical Code (NZECP) 221 36 Electrical Safety Clearances-Western Power Company 223 37 Electrical Safety Clearance for Electrical Panel 224 38 Electrical Safety Clearance for Transformer. 226 39 Electrical Safety Clearance for Sub Station Equipment's 228 40 Typical Values of Sub Station Electrical Equipment's. 233 41 Minimum Acceptable Specification of CT for Metering 237 Abstract of Electrical Standard 42 Abstract of CPWD In Internal Electrification Work 239 43 Abstract of IE Rules for DP Structure 244 44 Abstract of IS: 3043 Code for Earthing Practice 246 45 Abstract of IS:5039 for Distribution Pillars (<1KV AC & DC) 248 46 Abstract IS: 694 / IS:1554 / IS: 11892 for Cable 249 47 Abstract IS:15652 for Insulating Mat / IS: 11171 for Transformer 251 48 Abstract IS: 1678 / IS:1445 252 49 Abstract IS: 1255 for Cable Rote &Laying Method of Cable 253 50 Abstract IS: 5613 for HV Line 255 51 Abstract of Indian Electricity Rules (IE Rules) 260 Part-2 :Electrical Calculation: 1 Calculate Number of Earthing Pits for System 264 2 Calculate Size of Cable for Motor as per National Electrical Code 270 3 Calculate Transformer Protection as per National Electrical Code 272 4 Calculate over current Protection of Transformer (NEC 450.3) 274 5 Calculate Size of Contactor, Fuse, C.B, O/L Relay of DOL Starter 279 6 Calculate Size of Contactor, Fuse, C.B, O/L Relay of Star-Delta Starter 281 7 Calculate Transformer Size & Voltage Drop due to starting of Single Large Motor 284 8 Calculate TC Size & Voltage Drop due to starting of multiple no of Motors 285 9 Calculate Voltage Regulation for 11KV, 22KV, 33KV Overhead Line (REC) 286 10 Calculation Technical Losses of Distribution Line 289 11 Calculate Cable Size and Voltage Drop of HT / LV Cable 291 12 Calculate IDMT over Current Relay Setting (50/51) 294 13 Calculate Size of Capacitor Bank / Annual Saving & Payback Period 296 14 Calculate No of Street Light Pole 299 15 Calculate No of Lighting Fixtures / Lumens for Indoor Lighting 301 16 Calculate Street Light Pole Distance &Watt Area 302 17 Calculate Short Circuit Current (Isc) 303 18 Calculate Size of Bus bar for Panel 307 19 Calculate Size of Cable Tray 312 20 Calculate Size of Diesel Generator Set 314 21 Calculate Size of Main ELCB & Branch MCB of Distribution Box 317 22 Calculate Size of Solar Panels 322 23 Calculate Size of Inverter & Battery Bank 324 24 Calculate Cable Trunking Size 328 25 Calculate Size of Conduit for Cables / Wires 329 26 Calculate Cable Voltage

Drop for Street Light Pole 330 27 Calculate Lighting Protection for Building / Structure 333 28 Calculation Size of Pole Foundation & Wind Pressure on Pole 336 29 Calculation of Flood Light, Facade Light,Street Light and Signage Light 338 30 Calculate Size of Neutral Earthing Transformer (NET) 345 31 Calculate Transformer Regulation & Losses (As per Name Plate) 347 32 Calculation of Crippling (Ultimate Transverse) Load on Electrical Pole 349 33 Calculate Size of Circuit Breaker Fuse for Transformer (As per NEC) 351 34 Calculate Size of Ventilation Fan 353 35 Calculate Motor-Pump Size 354 36 Calculate Lighting Fixture’s Beam Angle and Lumen 356 Part-3 : Electrical Notes: Motor & Starter 1 Direct On Line Starter 359 2 Star-Delta Starter 364 3 Motor Number Plate Terminology 370 Transformer 4 Three Phase Transformer Connection 372 5 Vector Group of Transformer 388 6 Difference between Power Transformer & Distribution Transformer 401 7 Parallel Operation of Transformers 402 8 Various Routine Test of Transformer 409 9 Standard Transformer Accessories & Fittings 423 10 Basic of Current transformers 437 Lighting Luminars 11 Selection of Lighting Luminaries 453 12 Different Type of Lamps and Control Gear 467 13 What should you know before buying LED Bulbs 481 14 Type of Lighting Bulb Base & Socket 490 15 Type of Lighting Bulb Shape & Size 497 16 What is Fixture’s Beam Angle & Beam Diameter 521 17 Difference between High Bay and Low Bay Flood Light 526 18 Various Factor for illumination Calculation 532 19 How to design efficient Street Light 539 Cables 20 Cable Construction & Cable Selection 566 21 Difference between Unearthed & Earthed Cables 575 22 Low Voltage and High Voltage Cable Testing 577 23 EHV/HV Cable Sheath Earthing 580 24 HIPOT Testing 588 25 Type of Cable Tray 591 26 Type of Cable Glands 595 27 Cable Tray Size as per National Electrical Code-2002, Article 392 599 Earthings 28 What is Earthing 601 29 Difference between Bonding, Grounding and Earthing 606 MCB / MCCB / Fuse / Relay 30 Working Principle of ELCB / RCCB 609 31 Difference between MCB-MCCB-ELCB-RCBO-RCCB 613 32 What is Correct Method of MCB Connections 616 33 Type of MCB & Distribution Board 620 34 Type and Specification of Fuse 624 35 How to Select MCB / MCCB 637 36 Tripping Mechanism of MCCB 645 37 Setting of over Load, Short circuit & Ground Fault Protection of MCCB 650 38 Types and Revolution of Electrical Relay 656 Electrical Questions & Answers 39 Electrical Questions & Answers 674 Power Distributions & Transmissions 40 Type of Electrical Power Distribution System 697 41 Impact of Floating Neutral in Power Distribution 703 42 Total Losses in Power Distribution & Transmission Lines 708 43 Single Earthed Neutral and Multi Earthed Neutral 714 44 Types of Neutral Earthing in Power Distribution 717 45 Effects of unbalanced Electrical Load 726 46 Vibration Damper in Transmission Line 732 47 What is Ferranti Effect 735 48 What is Corona Effect 737 49 Harmonics and its Effects 745 50 What is Demand Factor-Diversity Factor-Utilization Factor-Load Factor 755 51 Guideline of Design Electrical Network for Building / Small Area. 764 52 Type-Size- Location of Capacitor in Electrical System 766 53 Types of Overhead Conductors 775 54 What is Power Factor 783 55 11KV/415V over Head Line’s Specification as per REC 790 56 Analysis the Truth behind Household Power Savers 803 57 How Reactive Power helpful to maintain a System Healthy 806 58 Effects of High Voltage Transmission Lines on Humans and Plants 813 59 How to save Electrical energy at Home 819 Others 60 Type of Lighting Arrestor 822 61 Selection of Surge Protective Device (SPD) 831 62 Selection of Various Types of Inverter 842 63 Selection of Various Types of UPS 852 64 Method of Earth Resistance Testing 860

Selection & Erection BoD – Books on Demand

Principles of Electrical Safety discusses current issues inelectrical safety, which are accompanied by series’ ofpractical applications that can be used by practicingprofessionals, graduate students, and researchers. . • Provides extensive introductions to important topicsin electrical safety • Comprehensive overview of inductance, resistance, andcapacitance as applied to the human body • Serves as a preparatory guide for today’spracticing engineers

instalaciones eléctricas en edificios. Parte 5, Elección e instalación de materiales eléctricos. Capítulo 52, Canalizaciones Jignesh.Parmar

Global energy context has become more and more complex in the last decades; the raising prices of fuels together with economic crisis, new international environmental and energy policies that are forcing companies. Nowadays, as we approach the problem of global warming and climate changes, smart metering technology has an effective use and is crucial for reaching the 2020 energy efficiency and renewable energy targets as a future for smart grids. The environmental targets are modifying the shape of the electricity sectors in the next century. The smart technologies and demand side management are the key features of the future of the electricity sectors. The target challenges are coupling the innovative smart metering services with the smart meters technologies, and the consumers' behaviour should interact with new technologies and polices. The book looks for the future of the electricity demand and the challenges posed by climate changes by using the smart meters technologies and smart meters services. The book is written by leaders from academia and industry experts who are handling the smart meters technologies, infrastructure, protocols, economics, policies and regulations. It provides a promising aspect of the future of the electricity demand. This book is intended for academics and engineers who are working in universities, research institutes, utilities and industry sectors wishing to enhance their idea and get new information about the smart meters.

Grundlagen und Anwendung in der Gebäudeplanung Walnut Publication

Dieses Fachbuch behandelt alle relevanten Aufgaben für ein bestimmungsgemäßes Betreiben und Instandhalten brandschutztechnischer Anlagen in Gebäuden. Brandschutztechnische Anlagen können nur dann ihre lebensrettende Funktion erfüllen, wenn Sie ordnungsgemäß gewartet und betrieben werden und in dem Zustand gehalten werden, den die gesetzlichen Vorgaben und die anerkannten Regeln der Technik fordern. Betreiber erhalten alle wesentlichen rechtlichen und technischen Hinweise, die sie für den Betrieb und die Instandhaltung benötigen.

Dziennik ustaw Rzeczypospolitej Polskiej ICB Editores

Electric wiring systems, Electrical installations, Electric power systems, Electrical engineering, Electrical safety, Safety engineering, Electric shocks, Electrical accidents, Fire safety, Electrical protection equipment, Low-voltage installations, Low voltage, Extra-low voltage, Voltage, Electric current, Electric load, Electric power transmission, Electric power distribution, Industrial electrical installations, Domestic electrical installations, Temporary electrical installations, Electrical equipment, Open electrical equipment, Protected electrical equipment, Building & Construction

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Fundamentals of Electric Power Engineering Inst of Engineering & Technology

Kwartalnik naukowy „BiTP. Bezpieczeństwo i Technika Pożarnicza/ Safety & Fire Technique“ jest czasopismem recenzowanym, w którym publikowane są oryginalne artykuły naukowe, doniesienia wstępne, artykuły przeglądowe, studia przypadków oraz artykuły z praktyki dla praktyki. Zakres tematyczny kwartalnika: · ochrona przeciwpożarowa · zarządzanie kryzysowe · ochrona ludności · inżynieria bezpieczeństwa pożarowego · edukacja na rzecz bezpieczeństwa · procesy spalania, wybuchu i gaszenia · bezpieczeństwo budowli · technika pożarnicza · medycyna katastrof i ratownictwo medyczne · zarządzanie bezpieczeństwem · strategia bezpieczeństwa · inne tematy związane z szeroko rozumianym bezpieczeństwem W ocenie czasopism Ministerstwa Nauki i Szkolnictwa Wyższego (Komunikat z dnia 18 grudnia 2015 r.) Kwartalnik otrzymał 13 punktów. ISSN 1895-8443 Więcej informacji na stronie https://sft.cnbop.pl/

CEI/IEC 60364-5-52 John Wiley & Sons

When planning an industrial power supply plant, the specific requirements of the individual production process are decisive for the design and mode of operation of the network and for the selection and design and ratings of the operational equipment. Since the actual technical risks are often hidden in the profound and complex planning task, planning decisions should be taken after responsible and careful consideration because of their deep effects on supply quality and energy efficiency. This book is intended for engineers and technicians of the energy industry, industrial companies and planning departments. It provides basic technical network and plant knowledge on planning, installation and operation of reliable and economic industrial networks. In addition, it facilitates training for students and graduates in this field. In an easy and comprehensible way, this book informs about solution competency gained in many years of experience. Moreover, it also offers planning recommendations and knowledge on standards and specifications, the use of which ensures that technical risks are avoided and that production and industrial processes can be carried out efficiently, reliably and with the highest quality.

Bibliografía española □□□□ □□□□

Elektrotechnische Installationen in Gebäuden, besonders die Thematik der Raum- und Gebäudeautomation werden zunehmend komplexer. Als Mittler zwischen Allen am Bau Beteiligten sollte der Planer auch im Bereich der Elektrotechnik von Gebäuden die Zusammenhänge verstehen und kompetent beraten können. Dieses Buch vermittelt Studierenden und Praktikern aus dem Bereich des Bauwesens und der Gebäudetechnik die grundlegenden Kenntnisse der Elektrotechnik für die Praxis. Zahlreiche Übungsaufgaben und Beispiele runden das Werk ab.

Planning Guide for Power Distribution Plants Centrum Naukowo-Badawcze Ochrony Przeciwpożarowej im. Józefa Tuliszkowskiego Państwowy Instytut Badawczy

This book consists of chapters dedicated to the questions of cyber-physical system design and its usage for the chemical industry and new material design. Also, the contribution of the book covers scientific research and their results for cyber-physical systems design and application in the energy domain and solutions regarding engineering education for cyber-physical systems design. The book offers unique content for researchers and practitioners who are looking for new knowledge and skills in the framework of Industry 4.0 solutions. The book also benefits researchers and practitioners in chemistry and new material design and manufacturing to understand how cyber-physical systems can be applied to increase efficiency and performance. The target audience of the book are practitioners, enterprises representatives, scientists, Ph.D. and master students who perform scientific research or applications of cyber-physical systems in the concept of Industry 4.0.

Springer-Verlag

La mejora en la calidad de vida de las personas sería imposible sin los avances científicos y la evolución de los instrumentos de laboratorio y de diagnóstico en el área de la salud. La contribución de la electrónica, de los sistemas de control y del análisis computarizado de los datos tiene implicaciones y retos en todos los ámbitos de la existencia humana. Es en este contexto que la figura del ingeniero biomédico juega un rol fundamental como creador de la tecnología que posibilita la transformación de la sociedad. Conozca: El funcionamiento del equipo utilizado en la instrumentación biomédica. La tecnología que sirve de auxiliar en la medición de los diferentes sistemas que componen el cuerpo humano. Las normas que rigen la seguridad de las instalaciones eléctricas hospitalarias. David Moisés Terán Pérez es ingeniero mecánico electricista por la Universidad Nacional Autónoma de México, maestro en Microeléctrica por la Universidad de La Sorbona. Cuenta con 26 años de experiencia como docente en educación superior en instituciones como la Universidad Nacional Autónoma de México (UNAM), la Universidad de Puebla (UNIPUEBLA) y el Instituto de Tecnológico de Estudios Superiores de Monterrey (ITESM).

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IEC 60364-5-52:2009 deals with the selection and erection of wiring systems. This third edition cancels and replaces the second edition, published in 2001, and constitutes a technical revision. The main changes with respect to the previous edition are as follows:- Subclause 521.4 introduces minor changes with regard to busbar trunking systems and powertrack systems.- Subclause 523.6 introduces minor changes with regard to the sizing of cables where harmonic currents are present.- A new sublause 523.9 concerning single-core cables with a metallic covering has been introduced.- Clause 525 introduces changes in the maximum value of voltage drop permitted between the origin of the consumer's installation and the equipment which should not be greater than that given in the relevant annex.- Clause 526 introduces minor changes to electrical connections including additional exceptions for inspection of connections and additional notes.- Clause 528 introduces additional requirements with regard to proximity of underground power and telecommunication cables.- Clause 529 introduces minor changes to selection and erection of wiring systems in relation to

maintainability, including cleaning. The contents of the corrigendum of February 2011 have been included in this copy.
An Engineer's Field Guide Wolters Kluwer Belgium
With energy resources becoming scarce and costly, and electrical energy being the most sought after form of energy, The designers of electrical systems are faced with the challenge of guaranteeing energy efficiency, quality and scheduling To The satisfaction of the corporate customers. This demands that the electrical systems designers to be more versatile and more effective managers of energy resources. This data handbook is intended to be used as design assistance To The beginners in the field of Electrical Systems design and provides them an easy access To The relevant data required for their design without having to waste their time and energy in searching For The required data to be used in the design problem. This design data handbook is not intended for specialists in the field, but rather For The students of Electrical Engineering who are just entering the field of electrical systems design. This handbook also does not show the student how to be a designer, but presents in a concise manner the basic reference data to perform the design functions. This handbook can be permitted to be used inside the examination hall as a reference handbook.
Electrical Installations Handbook Marcombo
The earthing and bonding of an electrical installation is generally considered a complex and sometimes ambiguous subject for many who are involved in electrical facility engineering. For this one day workshop, the IEE Building Electrical Technology Professional Network (BETNET) invited a group of eminent speakers to present the basic concepts and applications necessary for the design and construction of earthing and bonding networks to meet personnel safety and functional needs (e.g., in hazardous locations or ITE applications) of buildings. This tutorial provides quality information to everyone involved in earthing and bonding design, enabling them to make informed decisions, ensuring installations are safe and reliable. This is a unique course and the only one in it's field to be focussed on this topic. It enables participants to: Identify the correct usage of earthed (or unearthed) systems to prevent electrical shock hazards; Become more familiar with the requirements for earthing and bonding to comply with BS7671: 2001; Specify the correct earthing and bonding requirements for power quality, general safety, hazardous locations and information technology equipment (ITE) applications; Through a number of example cases presented, be able to differentiate 'Clean Earth', 'low noise earth' and 'functional earth' from 'Safety earth'?; and with the aid of a main earthing busbar and appropriate bonding networks, to avoid bad practices of groundloops.
Principles of Electrical Safety Springer Nature
This title constitutes the proceedings of the Eighth International Conference on Power Electronics and Variable Speed Drives. There are 99 papers altogether.
An Introduction to Safety Grounding Editorial Paraninfo
This handbook introduces a methodical approach and pragmatic concept for the planning and design of changeable factories that act in strategic alliances to supply the ever-changing needs of the global market. In the first part, the change drivers of manufacturing enterprises and the resulting new challenges are considered in detail with focus on an appropriate change potential. The second part concerns the design of the production facilities and systems on the factory levels work place, section, building and site under functional, organisational, architectural and strategic aspects keeping in mind the environmental, health and safety aspects including corporate social responsibility. The third part is dedicated to the planning and design method that is based on a synergetic interaction of process and space. The accompanying project management of the planning and construction phase and the facility management for the effective utilization of the built premises close the book. The Authors Prof. em. Dr.-Ing. Dr. mult. h.c. Hans-Peter Wiendahl has been director for 23 years of the Institute of Factory planning and Logistics at the Leibniz University of Hannover in Germany. Prof. Dipl.-Ing. Architekt BDA Jürgen Reichardt is Professor at the Muenster school of architecture and partner of RMA Reichardt – Maas – Associate Architects in Essen Germany. Prof. Dr.-Ing. habil. Peter Nyhuis is Managing Director of the Institute of Factory Planning and Logistics at the Leibniz University of Hannover in Germany.
Power System Transients Inst of Engineering & Technology
IEC 60364-5-52 Low-voltage Electrical Installations
MDPI
A one-stop resource on how to design standard-compliant low voltage electrical systems This book helps planning engineers in the design and application of low voltage networks. Structured according to the type of electrical system, e.g. asynchronous motors, three-phase networks, or lighting systems, it covers the respective electrical and electrotechnical fundamentals, provides information on the implementation of the relevant NEC and IEC standards, and gives an overview of applications in industry. Analysis and Design of Electrical Power Systems: A Practical Guide and Commentary on NEC and IEC 60364 starts by introducing readers to the subject before moving on to chapters on planning and project management. It then presents readers with complete coverage of medium- and low-voltage systems, transformers, asynchronous motors (ASM), switchgear combinations, emergency generators, and lighting systems. It also looks at equipment for overcurrent protection and protection against electric shock, as well as selectivity and backup protection. A chapter on the current carrying capacity of conductors and cables comes next, followed by ones on calculation of short circuit currents in three-phase networks and voltage drop calculations. Finally, the book takes a look at compensating for reactive power and finishes with a section on lightning protection systems. Covers a subject of great international importance Features numerous tables, diagrams, and worked examples that help practicing engineers in the planning of electrical systems Written by an expert in the field and member of various national and international standardization committees Supplemented with programs on an accompanying website that help readers reproduce and adapt calculations on their own Analysis and Design of Electrical Power Systems: A Practical Guide and Commentary on NEC and IEC 60364 is an excellent resource for all practicing engineers such as electrical engineers, engineers in power technology, etc. who are involved in electrical systems planning.
A Practical Guide and Commentary on NEC and IEC 60364 Wiley
You are responsible for planning and designing electrical power systems? Good. Hopefully you know your way through national and international regulations, safety standards, and all the possible pitfalls you will encounter. You're not sure? This volume provides you with the wealth of experience the author gained in 20 years of practice. The enclosed CAD software accelerates your planning process and makes your final design cost-efficient and secure.
Electrical Notes IEC 60364-5-52 Low-voltage Electrical InstallationsThe International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprisingall national electrotechnical committees (IEC National Committees). The object of IEC is to promoteinternational co-operation on all questions concerning standardization in the electrical and electronic fieldElectrical Installation GuideAccording to IEC International Standards
The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprisingall national electrotechnical committees (IEC National Committees). The object of IEC is to promoteinternational co-operation on all questions concerning standardization in the electrical and electronic field

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