

INTRODUCTION petrochemical ac induction motor standards a comparison [PDF]

Induction Motor Efficiency Test Methods Energy-Efficient Electric Motors, Third Edition, Revised and Expanded General Purpose Three-Phase Induction Motors Having Standard Dimensions and Outputs. Frame Numbers 56 to 315 and Flange Numbers 65 to 740 Energy Efficiency Improvements in Electric Motors and Drives Rotating Electrical Machines Electrical Motor Products Case Study Data on Productivity and Factory Performance Energy-saving Principles and Technologies for Induction Motors Code of Practice for Installation and Maintenance of Ac Induction Motor Starters (voltage Not Exceeding 1000 V) Code of Practice for Selection of ac Induction Motor Starters(Voltage Not Exceeding 1 000 Volts) Energy Efficiency Improvements in Electronic Motors and Drives Induction Motors and Induction Machines in General Energy Efficiency Improvement of a Squirrel-cage Induction Motor Through the Control Strategy GB 25958-2010: Translated English of Chinese Standard. GB25958-2010 China Standard: GB/T 1032-2005 Test Procedures for Three-phase Induction Motors National Bureau of Standards Miscellaneous Publication List of English-translated Chinese standards □□□ Chinese Standard. GB; GB/T; GBT; JB; JB/T; YY; HJ; NB; HG; QC; SL; SN; SH; JJF; JJG; CJ; TB; YD; YS; NY; FZ; JG; QB; SJ; SY; DL; AQ; CB; GY; JC; JR; JT Electrical Codes, Standards, Recommended Practices and Regulations An Index of U.S. Voluntary Engineering Standards An Index of U.S. Voluntary Engineering Standards Handbook of Electric Motors Electrical Engineer's Reference Book IEEE Standard Test Procedure for Polyphase Induction Motors and Generators GB/T 5171.1-2014: Translated English of Chinese Standard (GBT5171.1-2014) List of English-translated Chinese standards 2015 GB, GB/T, GBT Chinese Standard(English-translated version) - Catalog002 Aerospace Series. AC Induction Electric Motor Driven, Variable Delivery, Hydraulic Pumps. General Requirements National Directory of Commodity Specifications List of English-translated Chinese standards 2013 List of English-translated Chinese standards 2010 Energy Efficiency in Motor Driven Systems Energy-Efficient Electric Motors, Revised and Expanded NBS Special Publication Fans and Ventilation Rules of Thumb for Mechanical Engineers Electrical Machine Drives Control List of English-translated Chinese standards 2016 Shipboard Electrical Power Systems GB, GB/T, GBT Chinese Standard(English-translated version) - Catalog003

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Induction Motor Efficiency Test Methods 2018

energy efficiency induction motors induction motor test standards induction motor test methods stray load losses copper losses excitation losses friction and windage losses iec 60034 2 1 ieee 112

Energy-Efficient Electric Motors, Third Edition, Revised and Expanded 1992-02-24

revised and updated throughout the second edition of energy efficient electric motors provides guidelines for picking and using electric motors on an energy conservation and life cycle cost basis emphasizing both single and three phase motors in the 1 to 200 hp range that offer maximum opportunities for energy savings maintaining the features of the first edition this concise resource explains current improvements in electric motor capabilities and recently adopted nema energy efficient motor standards contains a new section about the power factor with nonlinear loads covers the performance of polyphase induction motors supplied by adjustable frequency power supplies for several types of loads presents information on numerous kinds of power semiconductors used in variable frequency power supply systems provides expanded coverage comparing various types of adjustable speed drives when applied to constant torque and variable torque loads and contains a new summary checklist criteria for selecting induction motors for adjustable frequency drive systems generously illustrated with nearly 200 figures and tables the second edition of energy efficient electric motors is timely reading for electrical electronics mechanical consulting specifying and plant engineers plant and purchasing managers original equipment heating ventilating and air conditioning manufacturers and continuing education courses in these disciplines

General Purpose Three-Phase Induction Motors Having Standard Dimensions and Outputs. Frame Numbers 56 to 315 and Flange Numbers 65 to 740 2001-08-15

three phase motors alternating current motors induction motors flanges

Energy Efficiency Improvements in Electric Motors and Drives 2012-12-06

the reduction of energy consumption through improvements in energy efficiency has become an important goal for all countries in order to improve the efficiency of the economy to increase energy supply security and to reduce the emissions of co and other pollutants caused by power generation 2 electric motors use over half of all electricity consumed in developed countries typically 60 80 of the electricity which is used in the industrial sector and about 35 of the electricity used in the commercial sector in the european union is consumed by motors in industry a motor consumes an annual quantity of electricity which corresponds to approximately 5 times its purchase price throughout its whole life of around 12 to 20 years motors are by far the most important type of electric load they are used in all sectors and in a wide range of applications namely the following fans compressors pumps mills winders elevators transports home appliances and office equipment etc it is their wide use that makes motor drive systems one of the main targets to achieve significant energy savings as motors are the largest users of electrical energy even small efficiency improvements will produce very large energy savings

Rotating Electrical Machines 2004

electrical motor products reviews the energy efficiency management laws for electrical motor products in united states european union eu and china the energy efficiency certification requirements for the electrical motor products vary from country to country and are summarised here international standards testing methods and certification requirements for specific electrical motor products are discussed including electric motors pumps and fans finally methods for improving energy efficiency are examined reviews the energy efficiency management laws for electrical motor products in united states european union eu and china highlights the importance of energy efficiency for electrical motor products documents energy efficiency certification requirements for electrical motor products and how they vary from country to country

Electrical Motor Products 2011-09-16

this report is divided into three chapters chapter 1 is directed primarily to the reader interested in the less detailed aspects of productivity in the industry chapter 2 presents detailed case studies of each plant and will be of value to the plant superintendent or the production engineer chapter 3 is a brief discussion of workers earnings and the benefits to the worker due to increased productivity and unionization where applicable the appendixes contain case studies of labor adjustments to technological changes industry background information and a copy of the questionnaire used a glossary of trade and technical terms completes the report

Case Study Data on Productivity and Factory Performance 1954

a unique guide to the integration of three phase induction motors with the emphasis on conserving energy the energy saving principle and technology for induction motor is a new topic and there are few books currently available this book provides a guide to the technology and aims to bring about significant advancement in research and play an important role in improving the level of motor energy saving includes new and innovative topics such as a case study of energy saving in beam pumping system and reactive compensation as a means of energy saving the authors have worked in this area for 20 years and this book is the result of their accumulated research and expertise it is unique in its integration of three phase induction motors with the emphasis on conserving energy integrates the saving energy principle technology and method of induction motors with on site experiences showing readers how to meet the practical needs and to apply the theory into practice it also provides case studies and analysis which can help solve problems on site

Energy-saving Principles and Technologies for Induction Motors 2018-02-12

the 1997 kyoto conference defined co2 emission targets for the developed regions of the world the eu target of decreasing the emissions 8 below the 1990 level by 2010 will require a very substantial effort covering basically all activities if such a target is to be reached energy efficient motor systems can provide one of the most important opportunities to achieve electricity savings in a cost effective way avoiding at the same time the emission of tens of millions of tons of carbon the reduction of energy consumption through improvements in energy efficiency is one of the major instruments for developed and developing countries to meet the kyoto commitments energy efficiency is also a key element of the european union eu energy policy since it improves the efficiency of the economy increases energy supply security and decreases harmful emissions due to electricity generation electric motor systems use over half of all electricity consumed in developed countries typically about 70 of the electricity which is used in the industrial sector and about 35 of the electricity used in the commercial sector in the eu is consumed by motor systems in industry a motor on average consumes an annual quantity of electricity which corresponds to approximately 5 times its purchase price throughout its whole life of around 12 to 20 years

Code of Practice for Installation and Maintenance of Ac Induction Motor Starers (voltage Not Exceeding 1000 V) 1969

energy efficiency optimization of electric machines is an important research field and is part of the objectives of several international projects such as the european commission climate and energy package which has set itself a 20 energy savings target by 2020 and was extended for 2030 with higher targets therefore this thesis proposes an efficiency optimization method of the induction machine im through the variation of the control parameters to achieve this goal the flux in the airgap is modified according to an optimal flux table computed off line for all possible operating points the flux table is calculated with the best possible accuracy through an improved dynamic model of the im developed in these works the latter avoids the main drawback of the classic dynamic model by considering the effect of core losses the core loss model established by bertotti is used it depends on the frequency and the amplitude of the magnetic field the losses are then represented by a variable resistor continuously evaluated according to the operating point the established optimal flux table is a function of the operating conditions in terms of torque and speed indeed the results show that the flux can be optimized for torque values less than about half the rated torque and that this threshold is influenced by the speed the proposed optimization method is simulated then tested for the scalar control and the field oriented control in order to show the genericity of the proposed approach the validation is carried on an experimental test bench for two 5.5 kw induction motors of different efficiency standards ie2 and ie3 the results obtained show the reduction of the losses in the motor thus an improvement of the overall efficiency while preserving a satisfactory dynamic behavior consequently the optimization of the energy

efficiency is validated for the two control structures and for the two studied motors in addition to the validation of the simulation results the proposed approach is compared to existing methods to assess its effectiveness

Code of Practice for Selection of as Induction Motor Starters(Voltage Not Exceeding 1 000 Volts) 1967

this standard specifies energy efficiency grade minimum allowable values of energy efficiency target minimum allowable values of energy efficiency evaluating values of energy conservation and test method for small power asynchronous motors this standard is applicable to general purpose motors small power 3 phase asynchronous motor 10 w to 2200 w powered by 50 hz 690 vac and below voltage capacitor running asynchronous motor 10 w to 2200 w capacitor starting asynchronous motor 120 w to 3700 w double value capacitor asynchronous motor 250 w to 3000 w and motor 6 w to 550 w for air conditioning fan in room etc

Energy Efficiency Improvements in Electronic Motors and Drives 2012-12-06

the procedures specified in this standard are applicable for three phase asynchronous motors

Induction Motors and Induction Machines in General 1927

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Energy Efficiency Improvement of a Squirrel-cage Induction Motor Through the Control Strategy 2018

this document provides the comprehensive list of chinese national standards and industry standards total 17 000 standards

GB 25958-2010: Translated English of Chinese Standard. GB25958-2010 2014-03-15

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

China Standard: GB/T 1032-2005 Test Procedures for Three-phase Induction Motors 2020-10-15

presenting current issues in electric motor design installation application and performance this second edition serves as the most authoritative and reliable guide to electric motor utilization and assessment in the commercial and industrial sectors covering topics ranging from motor energy and efficiency to computer aided design and equipment selection this reference assists professionals in all aspects of electric motor maintenance repair and optimization it has been expanded by more than 40 percent to explore the most influential technologies in the field including electronic controls superconducting generators recent analytical tools new computing capabilities and special purpose motors

National Bureau of Standards Miscellaneous Publication 1945

for ease of use this edition has been divided into the following subject sections general principles materials and processes control power electronics and drives environment power generation transmission and distribution power systems sectors of electricity use new chapters and major revisions include industrial instrumentation digital control systems programmable controllers electronic power conversion environmental control hazardous area technology electromagnetic compatibility alternative energy sources alternating current generators electromagnetic transients power system planning reactive power plant and facts controllers electricity economics and trading power quality an essential source of techniques data and principles for all practising electrical engineers written by an international team of experts from engineering companies and universities includes a major new section on control systems plcs and microprocessors

List of English-translated Chinese standards [JB] 2018-01-01

instructions are given for conducting and reporting the more generally applicable and acceptable tests to determine the performance characteristics of polyphase induction motors and generators electrical measurements performance testing temperature tests and miscellaneous tests are covered

Chinese Standard. GB; GB/T; GBT; JB; JB/T; YY; HJ; NB; HG; QC; SL; SN; SH; JJF; JJG; CJ; TB; YD; YS; NY; FZ; JG; QB; SJ; SY; DL; AQ; CB; GY; JC; JR; JT 2009-12-21

after payment write to get a free of charge unprotected true pdf from sales chinesestandard net this part of gb t 5171 specifies the general technical requirements for small power motors this part is applicable to motors whose maximum continuous rated power does not exceed 1.1 kw when converted to 1500 r/min this part is also applicable to other single phase asynchronous motors with a power other than the value mentioned above the special requirements for various types of motors and other requirements not specified in this part shall be specified in the product standards of the various types of motors

Electrical Codes, Standards, Recommended Practices and Regulations 1971

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An Index of U.S. Voluntary Engineering Standards 1971

all english translated chinese codes are available at codeofchina.com

An Index of U.S. Voluntary Engineering Standards 2018-10-03

space transport alternating current electric motors delivery pumps construction installation maintenance reliability quality assurance approval testing testing aircraft

Handbook of Electric Motors 2002-09-27

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Electrical Engineer's Reference Book 1997

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IEEE Standard Test Procedure for Polyphase Induction Motors and Generators 2021-06-30

this book reports the state of the art of energy efficient electrical motor driven system technologies which can be used now and in the near future to achieve significant and cost effective energy savings it includes the recent developments in advanced electrical motor end use devices pumps fans and compressors by some of the largest manufacturers policies and programs to promote the large scale penetration of energy efficient technologies and the market transformation are featured in the book describing the experiences carried out in different parts of the world this extensive coverage includes contributions from relevant institutions in the europe north america latin america africa asia australia and new zealand

GB/T 5171.1-2014: Translated English of Chinese Standard (GBT5171.1-2014) 2018-05-04

this detailed reference provides guidelines for the selection and utilization of electric motors for improved reliability performance energy efficiency and life cycle cost completely revised and expanded the book reflects the recent state of the field as well as recent developments in control electronics the economics of energy efficient motors and systems and advanced power electronic drivers it includes five new chapters covering key topics such as the fundamentals of power electronics applicable to electric motor drives adjustable speed drives and

their applications advanced switched reluctance motor drives and permanent magnet and brushless dc motor drives

List of English-translated Chinese standards 2015 1917-05-24

the practical reference book and guide to fans ventilation and ancillary equipment with a comprehensive buyers guide to worldwide manufacturers and suppliers bill cory well known throughout the fans and ventilation industry has produced a comprehensive practical reference with a broad scope types of fans how and why they work ductwork performance standards testing stressing shafts and bearings with advances in technology manufacturers have had to continually improve the performance and efficiency of fans and ventilation systems as a result improvements that once seemed impossible have been achieved systems now range in all sizes shapes and weight to match the ever increasing applications an important reference in the wake of continuing harmonisation of standards throughout the european union and the progression of national and international standards the handbook of fans and ventilation is a welcome aid to both mechanical and electrical engineers this book will help you to understand how and why fans work choose the appropriate fan for the right job helping to save time and money learn installation operational and maintenance techniques to keep your fans in perfect working order discover special fans for your unique requirements source the most appropriate equipment manufacturers for your individual needs helps you select install operate and maintain the appropriate fan for your application to help you save time and money use as a reference tool course book supplier guide or as a fan ventilation selection system contains a guide to manufacturers and suppliers of ventilation systems organised according to their different styles and basic principles of operation

GB, GB/T, GBT Chinese Standard(English-translated version) - Catalog002 1932

fluids heat transfer thermodynamics mechanical seals pumps and compressors drivers gears bearings piping and pressure vessels tribology vibration materials stress and strain fatigue instrumentation engineering economics

Aerospace Series. AC Induction Electric Motor Driven, Variable Delivery, Hydraulic Pumps. General Requirements 2003-04-22

this comprehensive text examines existing and emerging electrical drive technologies the authors clearly define the most basic electrical drive concepts and go on to explain the most important details while maintaining a solid connection to the theory and design of the associated electrical machines also including links to a number of industrial applications the authors take their investigation of electrical drives beyond theory to examine a number of practical aspects of electrical drive control and application key features provides a comprehensive summary of all aspects of controlled speed electrical drive technology including control and operation handling of electrical drives is solidly linked to the theory and design of the associated electrical machines added insight into problems and functions are illustrated with clearly understandable figures offers an understanding of the main phenomena associated with electrical machine drives considers the problem of bearing currents and voltage stresses of an electrical drive includes up to date theory and design guidelines taking into account the most recent advances this book s rigorous coverage of theoretical principles and techniques makes for an excellent introduction to controlled speed electrical drive technologies for electrical engineering msc or phd students studying electrical drives it also serves as an excellent reference for practicing electrical engineers looking to carry out design analyses and development of controlled speed electrical drives

National Directory of Commodity Specifications 2018-10-03

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List of English-translated Chinese standards 2013 1971

the second edition of shipboard electrical power systems addresses new developments in this rapidly growing field focusing on the industry trend toward electric propulsion for cruise navy and commercial ships the book aids new or experienced engineers in mastering the cutting edge technologies required for power system design control protection and economic use of power covering the latest emission standards on ships and the clean power technologies necessary to meet such stringent regulations the book compiles essential information on power system design analysis and operation uniquely bringing all three together under one cover beginning by covering power system basics the book goes on to detail power generation electrical machines and batteries with new chapters on electric propulsion shipboard emission regulations and clean power technologies updated throughout to reflect this rapidly changing field the second edition clearly explains complicated electrical concepts using mechanical and hydraulic analogies to aid marine engineers in understanding difficult elements of the field the book is an indispensable resource for well rounded engineering students and professional engineers this textbook is essential reading for students of marine engineering electrical power systems and electrical engineering alongside engineers working on commercial and navy ships on ports on land and offshore rigs

List of English-translated Chinese standards 2010 2010-07-07

all english translated chinese codes are available at codeofchina.com

Energy Efficiency in Motor Driven Systems 1997

Energy-Efficient Electric Motors, Revised and Expanded 2016-10-03

NBS Special Publication 2021-07-19

Fans and Ventilation 2018-05-04

Rules of Thumb for Mechanical Engineers

Electrical Machine Drives Control

List of English-translated Chinese standards 2016

Shipboard Electrical Power Systems

GB, GB/T, GBT Chinese Standard(English-translated version) - Catalog003

a The Star-spangled Girl petrochemical The Star-spangled Girl The comparison Star-Spangled Screen Curtain ac Times Burns Mantle Best Plays and the Year Book of petrochemical the Drama in America Women and induction New Hollywood The Best petrochemical Plays ac 100 Greatest American Plays American Film standards Now comparison The Critics' Canon a Historical Dictionary of Contemporary American Theater New York induction Magazine ac Motion Pictures: a Catalog of Books, Periodicals, Screenplays and Production Stills: Production stills All induction His Jazz The Herald induction The Definitive Andy Griffith comparison Show Reference Conversations with Neil Simon petrochemical Engulfed standards The Concise Oxford ac Companion to American Theatre Routledge Guide comparison to Broadway a New York Magazine The motor Odd Couple on Stage and Screen The Versatility induction of Chairs The Oxford Companion ac to Twentieth-century Literature in English New motor York Theatre Critics' Reviews induction New York Magazine The Bicentennial standards of the United States of America Educational Theatre motor Journal The standards Magnificent '60s comparison New York Magazine Catalog a of Copyright Entries ac Neil Simon Dictionary Catalog of the Harris Collection of American Poetry and Plays, Brown University Library, Providence, motor Rhode Island People in petrochemical the News 1993 motor Broadway Plays and Musicals a Gossip Girl Dictionary Catalog of the Research motor Libraries of the New York Public Library, 1911-1971 Movies induction on TV, 1986-1987 New York Magazine a induction Oliver Smith

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