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Book Descriptions:

3rw44 manual espa ol

Series Manual If products and components from other manufacturers are used, these must be recommended or approved by Siemens. Proper transport, storage, installation, assembly, commissioning, operation and maintenance are required to ensure that the products operate safely and without any problems. Definitions Where the short form 3RW44 is used in the text, it refers to the SIRIUS 3RW44 soft starter. Siemens' products and solutions only form one element of such a concept. Customer is responsible to prevent unauthorized access to its plants, systems, machines and networks. There is one thyristor for the positive and one thyristor for the negative halfwave. The rms value of the motor voltage is increased from an adjustable starting voltage or starting torque to the rated motor voltage within a definable starting time by means of the leading edge phase. Their main benefits are their ability to perform soft starting, soft stops, and uninterrupted changeover without current peaks that put a strain on the system, as well as their compact dimensions. In case of heavy starting or increased starting frequency, a larger unit may have to be selected. For long starting times it is recommended to have a PTC sensor in the motor. This also. See also Chapter Technical data of the power unit Page 259. A larger soft starter may have to be selected if these values are exceeded. DANGER Hazardous voltage. Danger to life or risk of serious injury. If line voltage is present at the input terminals of the soft starter, hazardous voltage may still be present at the soft starter output even if a start command has not been issued. If the contactor is not connected within 100 ms of activation of the start command for the 3RW44, the soft starter no longer recognizes the current circuit variant standard circuit or insidedelta circuit. <http://www.aesal.org/images/editor/daikin-fty60gav1a-manual.xml>

- **3rw44 manual espa ol, 3rw44 manual espa ol latino, 3rw44 manual espa ol 2017, 3rw44 manual espa ol 2016, 3rw44 manual espa ol en.**

If the contactor is not connected within 100 ms of activation of the start command for the 3RW44, the soft starter no longer recognizes the current circuit variant standard circuit or insidedelta circuit. If the contactor is not connected within 100 ms of activation of the start command for the 3RW44, the soft starter no longer recognizes the current circuit variant standard circuit or insidedelta circuit. Special semiconductor fuses, e.g. SITOR fuses from SIEMENS, must be used for this purpose. Figure 48 Connections. The 3RW44 display will be inverted and the display and control modules display will be shown normally. The menu has various sublevels, which must be handled in different ways but are self-explanatory. 6.1.1 Menu structure and navigation. Make sure that the line and control voltages comply with the device-specific requirements refer to chapter Technical data Page 253. 6.2.1 Recommended procedure for commissioning 3RW44 Suggested Startup parameters Stopping parameters. It should be high enough to ensure that the motor does not become stuck during runup. The level change from 0 to 24 V DC is evaluated at the input. When an ATEX-certified overload relay is used e.g. 3RB2 from Siemens that affects an additional switching element e.g. contactor, the 3RW44 can be installed in series with this overload relay, meaning that the ATEX requirements are met. Note The operating hours counter is activated as soon as control voltage is applied to the soft starter. The motor start can be optimally adapted to each particular application. 7.2.1 Voltage ramp The simplest type of soft start with the SIRIUS 3RW44 soft starter is achieved using a voltage ramp. The motor stop can be optimally adapted to each particular application. If a start command is issued during the stop process, the process is interrupted and the motor is started again with the set startup mode. You will find suggested circuits in chapter Typical circuit diagrams Page 216. <http://favour-europe.com/attachment/daikin-ftxs60g-manual.xml>

The maximum torque that can be generated depends on the selected slow speed. 100% slow speed torque can be equivalent to approximately 30% of the rated motor torque. The following schematic diagram shows the cooling behavior with and without idle time. Emergency start active The emergency start function is activated. In the case of pumps, for example, a breakaway pulse often leads to misfiring. If there is an idle time Heatsink sensor shortcircuit The temperature sensor on the heatsink of the starter is not connected or defective. You will find the manual for the PROFINET communication module on the Internet . Parameter assignment is only possible via the GSD file and only cyclic data is transmitted, no data sets or alarms. Further documentation on the subject of PROFINET IO SIRIUS PROFINET communication module for 3RW44 soft starter operating instructions with. Turn off and lock out all power supplying the system and device before working on the device. Read the information in the SIRIUS PROFIBUS communication module for 3RW44 soft starter operating instructions with the article number 3ZX10120RW440KA0. Gently press the screwdriver downwards 2 and remove the cover 3. Insert the PROFIBUS DP communication module into the device 4. The next step is to assign the desired station address for the 3RW44 as a PROFIBUS slave. The soft starter is integrated into your system as a standard slave by means of the GSD file. You can download the GSD file from the Internet . Identifier related diagnostics begins at byte 6 and is 2 bytes long. When all locations have been written, the first entry is overwritten again. Note The newest entry is entered at the end of the data set. When all locations have been written, the first entry is overwritten again. Note The newest entry is entered at the end of the data set. Parameters disabled Parameterization by parameterizing master is possible. The loads should have similar mass moments of inertia and torque curves.

The loads should have similar mass moments of inertia and torque curves. Note In the case of increased operating sequences, the 3RW44 should be dimensioned at least one capacity level higher than the highest connected motor output. 3RW44 soft starters. Note In the case of increased operating sequences, the 3RW44 should be dimensioned at least one capacity level higher than the highest connected motor output. Safe disconnection can also be realized, for example, with a 3SK1 safety relay and power contactors. At most, welding of the contactor coordination. Discover everything Scribd has to offer, including books and audiobooks from major publishers. Start Free Trial Cancel anytime. Report this Document Download Now save Save Manual Soft Starter 3rw44 Siemens For Later 594 views 0 0 upvotes 0 0 downvotes Manual Soft Starter 3rw44 Siemens Uploaded by Ale Maria Description Full description save Save Manual Soft Starter 3rw44 Siemens For Later 0 0 upvotes, Mark this document as useful 0 0 downvotes, Mark this document as not useful Embed Share Print Download Now Jump to Page You are on page 1 of 255 Search inside document Browse Books Site Directory Site Language English Change Language English Change Language. Opcional hasta el tamaño S3 variante del aparato. En 3RW40 2. hasta 3RW40 4.; en 3RW40 5. y 3RW40 7. opcional. En caso necesario se deberán sobredimensionar el arranc. Para montaje frontal. La pensada disposición de las conexiones, cable de alimentación en la parte superior y conexión a la carga en la parte inferior, facilita la instalación en el armario eléctrico. Los relés estáticos pueden montarse sobre superficies de refrigeración disipadores existentes. El montaje resulta tan fácil como rápido y no requiere más que dos tornillos. La tecnología específica de semiconductor de potencia proporciona un contacto térmico muy bueno con el disipador. La corriente tipo indica la capacidad del relé estático.

Dependiendo del sistema de conexión y de las condiciones de enfriamiento, la intensidad asignada de empleo le realmente admisible puede resultar menor. 2 Tenga en cuenta que esta versión solo puede emplearse hasta la intensidad asignada de aprox. 50 A y con sección del conductor de 10 mm². 1 0 2 3 0 2 Tenga en cuenta que la versión con bornes de resorte solo puede emplearse hasta la intensidad asignada de aprox. 20 A y con sección del conductor de 2,5 mm². Las intensidades mayores se obtienen conectando dos conductores por cada punto de conexión. Otras tensiones asignadas de mando bajo consulta. Esto permite reemplazar fácilmente los relés estáticos en

instalaciones existentes. El cable de mando se enchufa de la misma forma que en el caso de los reles con 22,5 mm de ancho, lo que ayuda a ahorrar espacio. La especial tecnología de semiconductor de potencia proporciona un contacto térmico muy bueno con el disipador. La tecnología lógica de conexión, con cable de alimentación en la parte superior y conexión a la carga en la parte inferior, facilita la instalación nítida en el armario eléctrico. Ilustraciones similares 3 Tenga en cuenta que la versión con bornes de resorte solo puede emplearse hasta la intensidad asignada de aprox. 20 A y con sección del conductor de 2,5 mm². La gama incluye intensidades asignadas predefinidas para simplificar al máximo la selección. Dependiendo de la versión se obtienen intensidades de hasta 88 A. Igual de todos los demás componentes de nuestra serie de aparellaje estático, también estos aparatos destacan por su formato compacto y sus pequeñas dimensiones. Para otras aplicaciones, tales como las de protección ampliada de personas, el disipador se puede poner a tierra mediante una conexión por tornillo. Así es posible instalar derivaciones resistentes a cortocircuitos en combinación con un automático magnetotérmico del tipo B o un fusible convencional para la protección de cables.

No obstante, para que la protección contra cortocircuitos mediante automáticos magnetotérmicos funcione sin problemas, es necesario tener en cuenta algunas condiciones generales tales como las características de la instalación, por ejemplo la resistencia interna de la alimentación de la red, además del comportamiento de corte en cortocircuito del automático magnetotérmico. Determinar la limitación mediante aparatos de maniobra y cables, así como el nivel y la duración de la corriente de cortocircuito. Debe ponerse especial atención también en estos parámetros. La corriente tipo indica la capacidad del contactor estático. La intensidad asignada de empleo I_e realmente admisible puede ser menor, dependiendo de la tecnología de conexión y de la configuración. Con nuestros módulos de función resulta ahora más fácil que nunca cumplir estos requisitos. Los elementos complementarios se fijan por simple abroche sobre el aparato base; eso es todo lo que hay que hacer para establecer la conexión con el rele o con el contactor estático. Las conexiones por enchufe para el mando del aparellaje estático se pueden seguir utilizando. Las conexiones externas son por bornes de tornillo. Por medio de un bloque de conexión, los modelos con bornes de tornillo pueden conectarse directamente a un automático magnetotérmico 3RV2. En comparación con los sistemas tradicionales, para los cuales se requieren dos contactores, los contactores de inversión trifásicos permiten reducir la anchura en hasta un 50 %. Los aparatos con 45 mm de ancho son adecuados para motores hasta 2,2 kW, y con 90 mm de ancho, para motores hasta 3 kW. Por medio de un bloque de conexión, los aparatos pueden ser conectados directamente a un interruptor automático. Ilustraciones similares We are a nonprofit group that run this service to share documents. We need your help to maintenance and improve this website. Siemens Sirius 3RW44 Series SoftStart for 315kW 475HP 400V 3 Ph motor.

Das Motorst euengerat SIKOSTART 3RW34 wird in offener Ausfuhrung geliefert. Please try again later. The sales contract contains the entire obligation sikostart 3rw44 manual of Siemens. View and Download Siemens 3RW44 manual online. Features include sikostart 3rw44 manual By Pass Contactor. This manual contains notices you have to observe in order to ensure your personal safety, as well as to prevent damage to property. VA 230 V kW 400 V. At Synchronics we have the experience in repairing Siemens, Soft Starter SIKOSTART 3RW34 in a timely and cost effective manner. Price 1 unit PC communication program COM SIKOSTART User interface for PC communication via RS 232 serial interface. Para usted, in situ, en todo el sikostart 3rw44 manual mundo Su socio para el asesoramiento, las ventas, la formación, el servicio y sikostart 3rw44 manual las piezas de recambio, etc. The SIKOSTART 3RW22 compact starters have the following service. 2 3RW34 SIKOSTART Features The SIKOSTART 3RW34 product line is the next generation of Siemens solid state reduced voltage controllers. SIRIUS 3RW44 manual i GWA 4NEBDS 06. SIRIUS 3RW44 in sikostart 3rw44 manual Detail 14 Soft Starter ES Comfortable Parameterization and Evaluation of SIRIUS 3RW44 16 Block Library SIRIUS 3RW44 for SIMATIC PCS 7 Parameterization, configuration

and visualization of SIRIUS 3RW44 18 SIRIUS Soft Starters in Practical Use Application Examples
20 Overview of SIRIUS Soft Starters Technical Data 22. 3RW3 semiconductor motor control unit
SIRIUS System Manual GWA 4NEBc 8 5 8. Ampeon has the technical knowledge and resources to
3rw44 repair your 3RW3483 0DC34 SIEMENS SIKOSTART 3RW34. Manual SIRIUS 3RW44 Soft
Starter. Jedes Gera t sikostart weist Parameter fur den Sanftan lauf und auslauf sowie Fehler
erkennung auf. Soft Starter 3RW44 System Manual. SIKOSTART 3RW34 Selection and ordering data
Solid State Motor Controllers Only supplied in packs. Sikostart AC Semiconductor Motor Controller.
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Soft Starter 3RW44 Manual. Adjustable Current Limit. Note that the instructions in this manual do
not cover all details or variations in equipment, nor provide for every possible contingency to be met
in connection with installation, operation, or maintenance. Installation 1 English 1 Installation
Mounting position SIKOSTART 3RW22 can be installed on open switchboards, in enclosed
switchboxes or in switchgear cabinets. Maintenance data consists of troubleshooting and spare parts
information. These notices shown below are. Switching Devices Soft Starters and Solid State
Switching Devices SIRIUS 3RW Soft Starters sikostart 3rw44 manual High performance soft
starters. Industrial Control Soft sikostart 3rw44 manual Starters. The contents of this instruction
manual shall not become part of or modify any prior existing agreement, commitment
or relationship. As a leading Industrial Electronics Repair company in North America, Ampeon
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3RW34. Buy online now or contact us for manuals or pdfs. The one thing that Siemens Sirius Soft
Starter sikostart 3rw44 Manual does not do and it is a big QUANTITATIVE APTITUDE QUANTUM
CAT PDF FREE DOWNLOAD. Siemens Soft Starter Manual Pdf Controls — Soft Starters and Solid
State Switching Devices. Altitude The maximum permissible altitude is 3,000 m above sea level.
MANUAL OPERATION WITH COM INTERFACE FOR PC CABLE. 3RW2920 6LH00, Siemens,
THYRISTOR MODULE FOR SIKOSTART FUNCTIONS OR F. This feature is not available right now.
Synchronics Provides Expert Electronic Repairs For Siemens, Soft Starter SIKOSTART
3RW34. SIEMENS 3RW3472 0DC34 SIKOSTART 3RW34 on Schneider Electric Repair. Note that the
instructions in this manual do not cover all details or variations in equipment, nor provide for
every. With SIRIUS soft starters, e.

; Page 3 Table of Contents Important Notes Introduction Configuration Instructions SIRIUS
Installation, Connection and Branch Layout Soft Starter Display, Controls and Device Interfaces
3RW44 Commissioning Manual Device Functions Diagnosis and Messages Communication Module
PROFIBUS DP Circuit Examples General. Click to Check if In Stock. Siemens Industry Catalog
Automation technology Industrial controls Switching devices Soft starters and solid state switching
devices SIRIUS 3RW soft starters High Performance soft starters 3RW44 soft starters. 1 Scope of
Manual This manual provides an overview for the installation, setup and operation of the Siemens
SIKOSTART 3RW35 controller. The notices referring to your personal safety are highlighted in the
manual by a safety alert symbol, notices referring only to property damage have no safety alert
symbol. Schneider Electric Repair Home Sitemap Contact Us Tell us how we're doing. The 3RW40
standard soft starter up to 250 kW and the high feature soft starter 3RW44 are available as
successor types for the 3RW34. Der SIKOSTART 3RW34 ist ein mit einer 3rw44 Spannungsrampe
arbeitendes Motorsteuergerät, das für das sikostart 3rw44 manual Speisen von
Drehstrominduktionsmotoren mit Phasenanschnittsteuerung arbeitet. First Multi Ever Corporation
Sdn Bhd REPAIR SIEMENS SIKOSTART 3RW22 3RW34 3RW35 SOFT STARTER MALAYSIA
SINGAPORE BATAM JAKARTA. Siemens Soft Starter 3rw44 Manual Pdf i am having siemens make
type 3rw3046 1ab14 sikostart 3rw44 manual soft starters 15 nos installed in my SIEMENS SOFT
STARTER 3RW44 MANUAL PDF Siemens Soft sikostart 3rw44 manual Starter. The warranty
contained in the 3rw44 contract between the parties is the sole warranty of Siemens. Remote reset
for trip. For technical data, please refer to the current catalogs, the PMD or contact the Technical

Assistance for low voltage switching devices. 2 Device description The SIRIUS 3RW3 soft starters are part of the SIRIUS modular system.

Contador de eventos y hora de uso motor mantenimiento predictivo. Reducir el desgaste de engranajes y de correas trapezoidales en ventiladores. Clase 20 Arranque pesado, hasta 40 segundos con una corriente de arranque del 350% x In. Ejemplo mezcladoras, centrifugadoras y fresadoras. Clase 30 Arranque extra pesado, hasta 60 segundos con una corriente de arranque del 350% x In. Por ejemplo ventiladores grandes, molinos y trituradores. Funciones y Características Selección de parámetros de fábrica para aplicaciones típicas. Auto sintonización de parámetros para aplicaciones específicas. El método de control digital ofrece ESCUELA ING. ELECTRONICA Tabla de contenido índice. 1 Objetivos. 2 Anillos rozantes. 3 Rotor de Solicitar la colaboración de una persona Objetivos Específicos Utilizar el variador de velocidad G110 de Sistemas de arranque con CST Answers for industry. Desarrollamos proyectos llave en mano enfocados a la Calidad y Eficiencia en el consumo. Transformadores. Subestaciones. La norma IEC 10821 define y fomenta los símbolos gráficos Un contactor principal Puede ser necesario Folleto técnico De que forma un variador de frecuencia contribuye al Tensión de salida 24VDC. Potencia de salida W. Tensión de salida. Potencia de salida 5.0W. pag. CEE IMM 8000\Demo04 Recinto universitario Pedro Arauz palacios. Facultad de tecnología de la industria. Ingeniería mecánica Guía 2 1 Tema UTILIZACION DE SOFTWARE PARA DISEÑO Y SIMULACION DE CIRCUITOS NEUMATICOS. Características de diseño La boca de aspiración cuenta con un colector que permite la entrada fluida Características que hacen la diferencia! ARRANQUE DIRECTO. Es un sistema de arranque obtenido en un solo tiempo; el estator del motor se acopla directamente Es una puerta que puede instalarse tanto en interior y en exterior, se puede Características técnicas generales Es un mando auxiliar, ya que interviene en el motor de Comfort 220. Artículo N. de art.

Funcion El objetivo primordial del proceso de deshidratación es reducir el contenido de Ministerio de Salud Pública y Asistencia Social HOSPITAL Información de producto BAT 490. Automotive Aftermarket Objetivo El objetivo del laboratorio de motores eléctricos es la de formar a profesores y alumnos con la más alta tecnología Manual de Conducción Eficiente QUE SON LAS TÉCNICAS DE CONDUCCION EFICIENTE. La conducción eficiente consiste en una serie de técnicas de conducción que, unidas Con esta tecnología, la salida del generador es estable al 100% y mientras tanto, Factor de corrección del arco de contacto. Regulación automática en 32 escalones. Ajuste de temporización. Ajuste de insensibilidad. Compensador de caída de tensión en Herramientas y Aplicación Ejemplo Herramientas y Aplicación Ejemplo Panasonic Electric Works España Motion Control Agenda Definición de inercia y ejemplos Tiempo en que se embraga la Toma de Fuerza. Carga en la transmisión. Su división CM Rigging es la encargada La frecuencia medida en Hz del sistema de potencia para el cual el banco del capacitor es diseñado. Estos pueden clasificarse Términos de Referencia para Proyectos de Equipamiento y Electrificación para Agua Potable Soluciones integrales para la mejora de la rentabilidad y la eficiencia de las To use this website, you must agree to our Privacy Policy, including cookie policy. Page 7 and 8 3RW44 Menüstruktur Messwertanzeige Page 9 and 10 Steuerelektronik 3RW44..BC3. 3RW4 Page 11 and 12 Technische Daten Bemessungsbetriebs Page 13 and 14 3RW44 Soft starter English Safety I Page 15 and 16 Examples of Circuit Diagrams Main c Page 17 Quick start menu Factory settings C Page 21 and 22 Quick commissioning menu, when swit Page 23 and 24 Rated operating voltage U e V 200. Page 25 and 26 IMPORTANT Respector un espace libre Page 27 and 28. Dan Page 29 and 30 3RW44 Structure de menu Affichage d Page 31 and 32 Electronique de commande 3RW44..

B Page 33 and 34 Caracteristiques techniques Montag Page 35 and 36 Arrancador suave 3RW44 Espanol Adv Page 37 and 38 Ejemplos de circuitos Circuito prin Page 39 and 40 Menu de inicio rapido Ajustes de Page 41 and 42 Ajustes de fábrica Comportamiento Page 43 and 44 Menu de inicio rapido, aparece de Page 45 and 46 Conexión dentro del triángulo Con Page 47 and 48 ATTENZIONE

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Table of Contents Important Information. Introduction 1. Configuration Instructions 2 Depending on the degree of risk, the instructions are presented as follows. Danger means that death or serious physical injuries will follow if you do not take the appropriate precautionary measures. Warning means that death or serious physical injuries may follow if you do not take the appropriate precautionary measures. Caution with a warning triangle means that minor physical injuries may follow if you do not take the appropriate precautionary measures. Caution without a warning triangle means that damage to property may follow if you do not take the appropriate precautionary measures. Notice means that an undesired result or condition may occur if the corresponding instruction is not observed. Where several degrees of risk are present at the same time, the instruction for the highest degree of risk is used.

If an instruction with a warning triangle contains a warning against personal injury, the same instruction may also contain an additional warning against damage to property. Qualified personnel according to the safety instructions of this documentation are persons authorized to commission, ground, and mark devices, systems and current circuits according to the relevant safety standards.

Notes on proper use Please observe the following Warning The device may only be used for applications specified in the catalog and the technical descriptions. Furthermore it may only be used in combination with thirdparty devices and components recommended or approved by Siemens. Faultless and safe operation is only ensured if the product is transported, stored, mounted and installed properly and if operation and maintenance is carried out conscientiously. Trademarks All names carrying the industrial property mark are registered trademarks of Siemens AG. The other designations in this publication may be trademarks whose use by third parties for their own purposes may infringe the rights of the owners. Copyright Siemens AG All rights reserved. This document shall not be transmitted or reproduced, nor shall its contents be exploited or disclosed to third persons without prior written consent from Siemens. Infringements will be subject to damage claims. All rights reserved, in particular in case of a patent grant of utility model registration.

Disclaimer of liability Although we have carefully checked the contents of this publication for conformity with the hardware and software described, we cannot guarantee complete conformity since errors cannot be excluded. The information provided in this manual is checked at regular intervals and any corrections which might become necessary will be included in the next editions. The SIRIUS 3RW44 soft starter is an electronic motor control device for optimized starting and stopping of 3phase asynchronous motors.

The manual describes all the SIRIUS 3RW44 soft starter functions. Target group The manual is aimed at all users who deal with commissioning service and maintenance planning and configuration of plants Required basic knowledge General knowledge in the field of general electrical engineering is required for understanding this manual. Validity Definitions This manual is valid for SIRIUS 3RW44 soft starters. It contains a description of the components that are valid at the time of publication of this manual. We reserve the right to include an updated product information leaflet with new components and new component versions. If the short form 3RW44 is used in the text, it refers to the SIRIUS 3RW44 soft starter. GWA 4NEB DS 04 vii 12 Important notes Disclaimer of liability The manufacturer of the system or machine is responsible for ensuring the correct overall functioning. SIEMENS can also not assume liability for recommendations given or implied by the following description. Handling To facilitate and speed up access to special information, the manual

contains the following aids A Table of Contents is listed at the beginning of the manual. The individual chapters contain subheadings to provide an overview of the contents of the section. At the end of the manual there is an extensive index to enable you to quickly access the required information. Always up to date information For questions on motor starters, your regional contact persons for communication capable low voltage switchgear will be pleased to assist you. Please enter your suggestions for improvement, supplements and corrections and send the sheet back to us. This will help us to improve the next issue. If switched on directly, the typical current and torque behavior of the 3 phase asynchronous motor may negatively influence the feeding supply network and the load machine during startup. Starting current 3 phase asynchronous motors have a high direct starting current $I_{starting}$.

Depending on the motor version, this current may be 3 times to 15 times the size of the rated operating current. A typical value is 7 to 8 times the size of the motor rated current. Disadvantage This results in the following disadvantage Higher load on the electrical supply network. This means that the supply network must be dimensioned for this higher output during motor startup. For the load machine, this means that the starting and acceleration forces in relation to rated operation result in increased mechanical load on the machine and the conveyed material. GWA 4NEB DS 16 Introduction Operating Mode of the SIRIUS 3RW44 Electronic Soft Starter The 3RW44 soft starter has two antiparallel thyristors in each of the phases. There is one thyristor for the positive and one thyristor for the negative half wave. Using phase angle control and various control methods, the r.m.s. value of the motor voltage is increased from a definable start voltage or start torque to the motor rated voltage within a definable starting time. Example The motor current acts proportional to the voltage applied to the motor. Thus, the starting current is reduced by the factor of the voltage that is applied to the motor. The torque behaves quadratically in relation to the voltage applied to the motor. The starting torque is thus reduced quadratically based on the voltage applied to the motor. The same principle is also used during the stopping process. The effect is that the torque generated in the motor is slowly reduced, thus enabling soft stopping of the application. During this process, the frequency remains constant and corresponds to the network frequency, contrary to the frequency controlled starting and stopping of a frequency converter. Upon completion of motor startup, the thyristors are fully utilized, resulting in the complete network voltage being applied to the motor terminals.