



File Name: 3rw44 user manual.pdf
Size: 3623 KB
Type: PDF, ePub, eBook
Category: Book
Uploaded: 19 May 2019, 21:13 PM
Rating: 4.6/5 from 633 votes.

Status: AVAILABLE

Last checked: 1 Minutes ago!

In order to read or download 3rw44 user manual ebook, you need to create a FREE account.

[**Download Now!**](#)

eBook includes PDF, ePub and Kindle version

- [Register a free 1 month Trial Account.](#)
- [Download as many books as you like \(Personal use\)](#)
- [Cancel the membership at any time if not satisfied.](#)
- [Join Over 80000 Happy Readers](#)

Book Descriptions:

We have made it easy for you to find a PDF Ebooks without any digging. And by having access to our ebooks online or by storing it on your computer, you have convenient answers with 3rw44 user manual . To get started finding 3rw44 user manual , you are right to find our website which has a comprehensive collection of manuals listed.

Our library is the biggest of these that have literally hundreds of thousands of different products represented.



Book Descriptions:

3rw44 user manual

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://viaggi.abruzzo.it/img/comdial-instruction-manual.xml>

- **3rw44 soft starter user manual, siemens 3rw44 user manual, 3rw44 user manual, 3rw44 user manual pdf, 3rw44 user manual download, 3rw44 user manual free, 3rw44 user manual online.**

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

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. Integrated functionality for optimal process control for all process control systems In addition to the general sensor technology, the motor feeder data is increasingly being integrated into the process control system. By integrating the SIRIUS 3RW44 soft starters into the process control system it becomes possible to prevent errors in the motor feeder simply and reliably, or to detect these errors quickly and rectify them. Downtimes are reduced to a minimum or can be prevented before they happen. For example, the output and display of the key measured values calculated by the 3RW44 is also a good aid for being able to assess and monitor the current system status. Easy integration with the PCS 7 Function Block Library The PCS 7 function block library can be used for simple and easy integration of SIRIUS 3RW44 soft starters into the SIMATIC PCS 7 process control system. The focus here is simple configuration. The function of the modules is based on the PCS 7 standard libraries and is optimally harmonized with the functions of the SIRIUS 3RW44. Users who have previously integrated motor feeders into conventional technology via signal blocks and motor or valve blocks or, for example, already have experience with SIMOCODE modules, are easily able to switch to SIRIUS 3RW44.

<http://www.drupalitalia.org/node/68738>

With the integration of the SIRIUS 3RW44 into SIMATIC PDM, the systemwide device parameterization and diagnostics of the SIRIUS 3RW44 soft starters are possible from a central point. Motor block for the direct control of the drive The lowvoltage motors started and protected by SIRIUS 3RW44 soft starters can be integrated into the process automation via the motor blocks. This means that they form the interface between the process control system and the motors controlled by

the SIRIUS 3RW44. To reduce the amount of configuring work required, functions for signal processing and technological functions are integrated into one motor block. The block symbols and faceplates for the motor blocks display the motor feeders on the operator station and provide all the required information for monitoring and control as well as detailed diagnostics. Faceplate of the motor block Evaluation of additional motor feeder measurements All measured values calculated by the soft starter, such as current, voltage and output of the feeder, are displayed and output via the measured value blocks. A key advantage here is that where required, a wide range of information on important motor feeder measurements is available, e. g. for load monitoring. The faceplate for the measured values is accessed from the motor block faceplate. Faceplate for measured values Evaluation of maintenancerelated motor feeder data The 3RW44 has powerful functions to detect and monitor maintenancerelated motor feeder data. For example, the operating and downtimes of the motor, operating cycles and overload tripping events are detected and stored directly on the device. The display is provided on a separate faceplate for the statistics block on the operator station. 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.

<http://hamlettocarinas.com/images/canon-manuals-download.pdf>

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 I_e 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 relés con 22,5 mm de ancho, lo que ayuda a ahorrar espacio. 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 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.

<https://junktiquecollector.com/images/canon-manual-printer.pdf>

Las intensidades mayores se obtienen conectando dos conductores por cada punto de conexión. 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 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. A soft starter. Siemens 3rw40 Manual SIRIUS 3RW soft starters are a costeffective alternative to using direct or wyedelta starters for starting threephase motors. They avoid undesirable side effects such as mechanical bumps in the machine and mechanics or voltage drops in the mains supply. The soft start in control cabinets can be implemented in almost any application in a simple and practical way with our complete soft starter range. Advantages at a glance. Soft start and soft stop. Smooth starting, without steps. Reduced current peaks. Avoidance of line voltage fluctuations during startup. Reduced load on the power supply system. Reduced mechanical load in the drive. Considerable space savings and reduced wiring compared to other starters. Maintenancefree switching. Introduction Industrial Controls Configuration instructions Installation, connection and feeder configuration Soft starters and solidstate switching devices Display, controls and device 3RW44 soft starters interfaces Commissioning Manual Device functions Diagnostics and messages PROFIBUS DP. Note the following WARNING Siemens products may only be used for the applications described in the catalog and in the relevant technical documentation.

www.xcelsus.de/wp-content/plugins/formcraft/file-upload/server/content/files/1626bed7a194f1---can-on-jx210p-fax-machine-user-manual.pdf

If products and components from other manufacturers are used, these must be recommended or approved by Siemens. Product Information. Definitions Where the short form 3RW44 is used in the text, it refers to the SIRIUS 3RW44 soft starter. SIEMENS AG, its regional offices, and associated companies hereinafter referred to as SIEMENS cannot guarantee all the properties of a system or machine not designed by SIEMENS. 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. Depending on startup the motor version it can amount to between three times and fifteen times the rated operational current. 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 leadingedge phase. Phase angle control and schematic diagram of a soft starter with internal bypass contacts Application and use Applications and selection criteria 3RW44 soft starters can be used as an alternative to stardelta wyedelta starters and frequency converters. 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. Smooth braking Rotary pumps, piston pumps. No pressure surges. Increased service life of the pipe system Agitators, mixers. Reduced starting current Fans. Configuration instructions Configuration The 3RW44 electronic soft starters are designed for normal starting. 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. Page 259. If deviations from this data occurs, the starters may need to be oversized.

Selection criteria Note You must select the size of your SIRIUS 3RW44 soft starters according to the rated motor current rated current. The settings and device dimensions indicated in these tables are examples only; they are merely provided for information purposes and are not binding. 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. Factory settings Reset to the factory settings default. Configuration instructions 3.6 Article number system for SIRIUS 3RW44 soft starters Article number system for SIRIUS 3RW44 soft starters 3RW4. VIII. Fields are not configurable I Identifier of the basic unit AC semiconductor motor control device soft starter II Device version 4 HighEnd soft starter. Do not lift the device by the cover when unpacking it as this could lead to damage. 4.1.2 Mounting position The soft starter is mounted vertically on vertical, level surfaces. Figure 42 Clearance to other devices NOTICE Allow sufficient clearances for the cooling air to circulate freely. Installation, connection and feeder configuration 4.2 Design of the feeder Contact element The 3RW44 soft starter performs the functions of the contact element and motor protection. 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. 100 ms of activation of the start command for the 3RW44. 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. Figure 44 Nameplate of a 22 kW motor The SIRIUS 3RW44 soft starter can be dimensioned to match the current flowing in the motor section 58% of the conductor current by connecting it to the delta winding of the motor.

Installation, connection and feeder configuration 4.2 Design of the feeder The 3RW44 soft starter automatically detects how it is connected, meaning that the connection type does not have to be explicitly set on the device. In this case, the display reads Insidedelta circuit. 100 ms of activation of the start command for the 3RW44. 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. 100 ms of activation of the start command for the 3RW44. 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. 1 s for the main contactor or control the main contactor via an output with parameterized ON time function as described in chapter 3RW44 in a standard circuit with line contactor and control via PLC Page 218. Special semiconductor fuses, e.g. SITOR fuses from SIEMENS, must be used for this purpose. This internal thyristor protection function is not sufficient, however, in the event of a defect in the motor windings or a shortcircuit in the motors power supply cable, for example. Special semiconductor fuses, e.g. SITOR fuses from SIEMENS, must be used for this purpose. Connecting the generator directly in the supersynchronous range may cause soft starter faults. Electrical connection 4.6.1 Control and auxiliary circuit connection The SIRIUS 3RW44 soft starter is supplied with two different connection systems. Screw connections Springloaded connections Two control voltage versions are available 115 V AC . Installation, connection and feeder configuration 4.6 Electrical connection Sizes 3RW44 3. For size 3RW44 3. Devices, it is possible to retrofit box terminals as optional accessories see chapter Accessories Page 277.

After switching on, the SIRIUS 3RW44 soft starter automatically recognizes that the external display and control module has been connected. The 3RW44 display will be inverted and the display and control modules display will be shown normally. Commissioning Menu structure, navigation, changing parameters The 3RW44 functions parameterization, diagnostics and motor control can be executed using the four control keys. 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. If values are required that differ from the defined parameters in the Quick Start menu or in the factory settings of the 3RW44, please proceed as follows Under the Settings menu item, select refer to chapter Settings main menu item Page 59. For testing purposes, this rated data must be adapted to the new motor. The parameter value should be set to approx. 150% to start the motor. It should be high enough to ensure that the motor does not become stuck during runup. The Motor heating startup mode is not a continuous operating mode. Note If the DC braking function is selected, the DC braking contactor function must be assigned to one output of the soft starter. The Trip Reset input is edge-controlled. The level change from 0 to 24 V DC is evaluated at the input. The 3RW44 does not have ATEX certification. 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. Commissioning 6.4 Making settings in the selected parameter set Note. GSD file or in the OM when the bus is started.

As long as the connected drive is controlled by the soft starter, no parameter changes carried out at the same time can be saved by means of the Saving options menu item. Restoring the factory settings All settings made or saved so far will be discarded and the device will be reset to the basic factory settings master reset. The following information applies to modules transported and stored in the original packaging. At most, welding of the contactor coordination. Normally, fuseless mounting combination of motor starter protector and soft starter is sufficient. General technical data 11.3 Technical data 11.3.9 Spare parts Note 3RW4422 and 3RW4423 The 3RW4422 and 3RW4423 soft starters do not need fans. Acceleration torque limitation .Maximum starting time. Selection criteria, 17 Semiconductor fuse, 40, 139 SITOR, 40, 139 SITOR fuses, 40 SITOR semiconductor fuse, 139 Size 3RW44 2., 42 3RW44 3., 43 3RW44 4., 43 Slow speed factor, 134 Slow speed torque, 134 Software, 20, 47 Springloaded connections, 42. Would you like to try it too Please try again later. Otherwise, we'll assume you're OK with our use of cookies. RS Components has taken all reasonable steps to confirm this statement. Information relates only to products sold on or after the date of this certificate. Compliant product details The Controller features a builtin power supply and incorporates microprocessor technology. It also offers three motor outputs DIN8 for actuators, and an HD15 input for the Hand Switch 7643468. These devices are available in the SIRIUS modular system up to 5.5 kW at AC 400V. For higher power ratings, circuitbreakers of size S0 with screw connection up. This feature plays a big part in saving additional hardware costs.

<http://www.drupalitalia.org/node/68740>