Dynamics Reinterpreted

The Comprehensive Range of SIRIUS Soft Starters



sirius

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The Ideal SIRIUS Soft Starter for All Applications

Today, three-phase motors serve as the ultimate drive concept. Yet, for many cases direct starting or wye-delta* starting may not always be the best solution. Annoying side effects such as mechanical impact in the machine or voltage drops in the line supply frequently occur. With SIRIUS soft starters, these problems are a thing of the past. This seamless range offers a suitable soft alternative for almost any application – whether for standard or highfeature starting. Optimum and future-proof machine concepts can be very easily and efficiently realized through the smooth starting of three-phase motors.

* star-delta







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With SIRIUS soft starters, e.g. the acceleration of cooling water pumps in power plants can be optimized and water hammers avoided through special pump stop functions.





SIRIUS Devices for the Control Cabinet

SIRIUS soft starters are perfectly matched with the SIRIUS devices for the control cabinet. The modular standard components, which can be flexibly combined, offer everything for the switching, protecting and starting of various consumers. The range features state-of-the-art technology and offers continuous innovations such as compact soft starter solutions, solid-state switching devices and many further products.

With only seven sizes, the range covers the entire power spectrum up to 250 kW. To assemble a load feeder in next to no time, a soft starter, circuit breaker, contactor or overload relay is simply docked on and screw-fastened. By the way, also maintenance is just as easy and fast as the SIRIUS components' configuration, installation and wiring.

SIRIUS devices for the control cabinet not only feature innovative technology, but are also accommodated in a perfect design, which received the renowned iF Product Design Award. Space-saving assembly, outstanding ergonomics as well as excellent design and workmanship ensure a particularly tidy arrangement in the control cabinet.

SIRIUS also scores a top ranking in worldwide comparison: Whether in São Paolo, Berlin or Shanghai – SIRIUS devices for the control cabinet are available with international approvals all around the world. Our comprehensive service network provides prompt support throughout the entire life cycle in more than 190 countries.



The SIRIUS range

| Load feeders | Up to 250 kW easily realizable with standard devices |
|--------------------------|---|
| Modularity | Everything is matched and can be combined as required |
| Versions and sizes | Efficient and flexible, thanks to 7 compact sizes |
| Assembly | Fast commissioning, short set-up times, easy wiring |
| Communication | Open for SIRIUS NET; connection to AS-Interface and PROFIBUS DP possible |
| Maintenance | Extremely durable; low maintenance and reliable |
| Construction | Space-saving, thanks to small device width and side-by-side assembly up to 60 °C |
| Approvals | Worldwide approvals and certification UL, CSA, shipbuilding |
| Design | Clear, ergonomic and award-winning |
| Mounting | Reliable screw-type or snap-on mounting over entire service life |
| Service | Short delivery periods also for spare parts through global logistics network |
| Environment | Environmentally friendly production and materials; recyclability; low power loss |
| Accessories | Low variance with integrated accessories |
| Spring-loaded technology | Fast and safe connection; vibration-proof and maintenance-free |

Soft Starting of Three-Phase Motors

SIRIUS soft starters – advantages at a glance

- Soft start and soft stop
- Smooth starting, without steps
- Reduced current peaks
- Avoidance of line voltage fluctuations during start-up
- Reduced load on the power supply system
- Reduced mechanical load in the drive
- Considerable space savings and reduced wiring compared to other starters
- Maintenance-free switching
- Ease of handling
- Perfectly matched with SIRIUS devices for the control cabinet



What is the operating principle of soft starters?

Soft starters limit the starting current and starting torque. This reliably prevents both mechanical stress as well as line voltage dips. The motor voltage is reduced through phase angle control and increased from an adjustable starting voltage up to the line voltage within the ramp time. Thanks to the step-free control of the supply voltage, the motor is adjusted to the driven machine's load behavior. Mechanical operating equipment is accelerated in a particularly gentle manner, which positively influences its operating behavior and prolongs its service life. In short: Soft starting and stopping protects the connected devices and ensures a smooth production flow.

Can load feeders be assembled with soft starters?

Of course. Fuseless load feeders of small size can be effortlessly assembled with circuit breakers, e.g. the SIRIUS 3RV. Thanks to the integrated overload functionality, also fused feeders can be realized¹⁾ in a rapid and space-saving manner.

How is the connection realized?

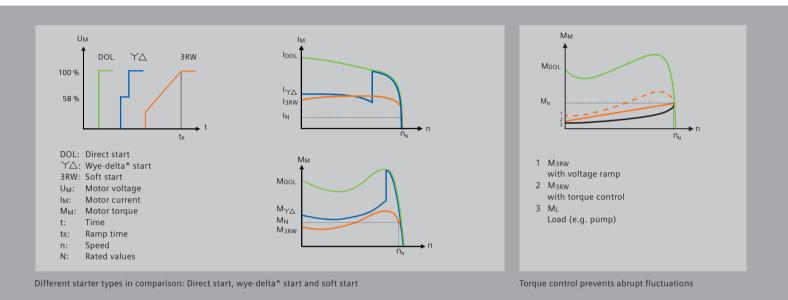
Connection is realized in the same manner as with all other SIRIUS devices for the control cabinet: Either using screw-type or spring-loaded terminals. Further connection systems can be employed subject to availability.

What about communication?

As a matter of course, our soft starters are able to communicate with the outside world. With our high-feature soft starters, this is realized with a communication module for PROFIBUS DP.

Technology in Detail

The Soft Principle



How are the parameters of a soft starter set?

With our standard soft starters, the ramp-up time, starting voltage and ramp-down time can be comfortably set via potentiometers. The values can be adjusted particularly finely within the usual setting ranges. For soft starters with motor overload protection, this also applies to the nominal motor current, the selection of the tripping class and the settable current limiting.

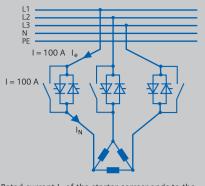
The multiple functions of our highfeature soft starters are set rapidly and comfortably via the integrated keypad with menu-prompted graphical display. Also commissioning and diagnostics are realized via this keypad.

Why is torque control the better solution?

Current and voltage fluctuations upon start-up are problems frequently encountered by operators of power supply systems. Your machines are then stressed by abrupt torque fluctuations. The soft torque control of our high-feature soft starters minimizes the maintenance expenditures for your machines.

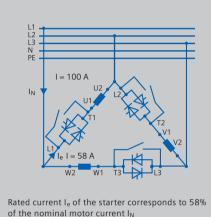
How about motor overload protection?

No problem: Our soft starters come with integrated motor overload protection for many applications. This does away with additional wiring costs and even protects the soft starter against overload. For all other cases, you can utilize the advantages of our further SIRIUS devices for the control cabinet by employing our circuit breakers or overload relays. All components are perfectly matched.



Rated current I_{e} of the starter corresponds to the nominal motor current I_{N} 3 cables to the motor

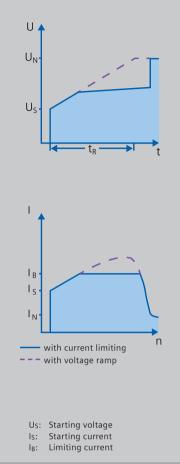
Standard circuit

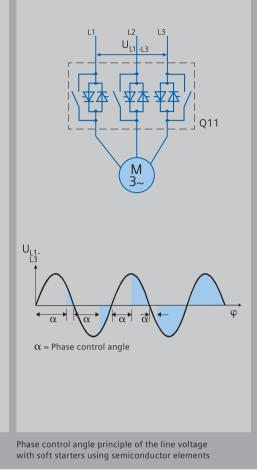


6 cables (as with wye-delta* starters) to the motor

Inside-delta circuit

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Soft start-up with voltage ramp and current limiting

What are the advantages of the inside-delta circuit?

With inside-delta circuits, the soft starter's phases are switched in series with the individual motor windings, thanks to which the soft starter merely has to conduct the delta current, i. e. 58% of the nominal motor current (conductor current).

Automatic recognition of the circuit type by our soft starters partially facilitates the application of considerably smaller devices.

Do all three phases have to be controlled?

No, this is not required for operational switching. Also for smooth motor start using our soft alternative, two controlled phases are sufficient with standard soft starters. Moreover, our solution not only saves costs, but also space in the control cabinet. However, the third controlled phase is required for inside-delta circuits.

What are the benefits of settable current limiting?

More and more power supply companies request compliance with specific current limit values during start-up to minimize the load on the power supply systems posed by high starting currents. This requirement can be perfectly met with the settable current limiting of our soft starters.

Is an external bypass contactor required?

No. Thanks to integrated bridging contact systems, bypass contactors are unnecessary while the power semiconductors' power loss is nevertheless sustainably minimized.

Are there further options for soft motor starting?

Soft motor starting can also be realized with a frequency converter. However, this is only reasonable if the motor's speed is to be influenced also during operation in addition to the starting phase – which increases the costs.

Soft Starters for Standard Applications

SIRIUS 3RW30 and 3RW40



Thanks to their compact design, integrated motor overload and intrinsic device protection, settable current limiting and further features, SIRIUS soft starters are the ideal starter solution for all kinds of standard applications.



In the past, typical starter solutions for standard applications were based on direct and wye-delta* starting. Today, the advantages offered by soft starter solutions are increasingly utilized. SIRIUS soft starters, for example, not only improve the start-up behavior of escalators, elevators, conveyor belts and pumps, as they simply facilitate a softer start-up than electro-mechanical starters. Above all, they protect the drive system and the mains supply and thus contribute to reducing the system costs from many points of view. To allow for an optimum adjustment of your drive to the application, we offer a complete portfolio of soft starters in various sizes for almost any application area. For example, the two-phasecontrolled SIRIUS 3RW30 is particularly suitable for standard applications up to 55 kW. SIRIUS 3RW40, which additionally offers motor overload, intrinsic device and thermistor motor protection, also masters demanding tasks in a soft manner within the power range from 5.5 to 250 kW.



Conversion Made Easy

SIRIUS 3RW30 in Detail



Belt slippage with heater blowers or sudden water pressure build-up in washing systems are only two of many possible problems which may occur if motors output too much power directly upon start-up. With the SIRIUS 3RW30, such failures are reliably prevented up to 55 kW (with 400 V). The main advantage: As the SIRIUS 3RW30 is the world's only soft starter which offers identical sizes within one device range, it even allows for a direct conversion from direct to soft starting.

What are the advantages of soft starting?

The advantages are multiple, as the SIRIUS 3RW30 reduces the stress on the motor by reducing the start-up torque and protects the mains against hazardous current peaks through reduced current input. This reliably eliminates line voltage dips.

What are the benefits of the SIRIUS 3RW30?

The SIRIUS 3RW30 is particularly compact thanks to its consistently optimized power components in hybrid technology. It thus also facilitates sideby-side assembly up to 60 °C. It offers fast configuration and easy mounting with only 3 motor supply cables. Small fuseless load feeders can be assembled with a single module – with the SIRIUS 3RV circuit breaker. Also fused feeders can be realized in a fast and space-saving manner in combination with SIRIUS 3RB solid-state overload relays.

What about safety and reliability?

Thanks to two-phase control and the patented "polarity balancing" control principle, the SIRIUS 3RW30 is a dependable device which ensures safe and reliable operation. In addition, the integrated bypass contact system reduces the soft starter's heat loss during operation.

What are the application areas?

The SIRIUS 3RW30 can be employed in almost any standard application up to a motor rating of 55 kW with 400 V. For example for driving conveyor belts, compressors, grinding machines, saws, agitators, etc.



With the SIRIUS 3RW30 in size SO (45 mm), up to 38 A can be switched

How is the SIRIUS 3RW30 set?

Ramp-up time and starting voltage can be comfortably and easily set via 2 potentiometers, ensuring optimum starting behavior.

How is the soft starter controlled?

Without interface relays the SIRIUS 3RW30 can be directly controlled via the PLC – or via the control input. The respective operating state is signaled via a relay output.

What are the saving potentials?

Space savings in the control cabinet up to 70% are achievable compared to wye-delta* starters (example 18.5 kW: 45 mm width instead of 158 mm). The SIRIUS 3RW30 also pays off in terms of mounting: with only 3 instead of 6 motor supply cables.

The 3RW30 is also available with removable control terminals. When replacing a 3RW30, the wiring on the terminal thus remains intact ("permanent wiring") and the terminals are simply snapped onto the new 3RW30, which saves a considerable amount of time.

Is the SIRIUS 3RW30 affordable?

Absolutely as it not only ensures reliable operation thanks to standardized production, but is also very attractive in terms of price.

How about accessories?

In addition to easy-to-mount terminal covers for optimum touch protection, also box terminal blocks, connection modules and labeling strips from the SIRIUS range are available for the 3RW30.

High Functionality for Minimum Costs

SIRIUS 3RW40 in Detail



The SIRIUS 3RW40 is the top star among all standard soft starters! Thanks to its innovative control principle, it is not only the world's only two-phase-controlled soft starter in the power range from 5.5 kW (with 400 V) to 250 kW (with 400 V), but is also the smallest available solution thanks to its particularly compact design. It facilitates space-saving and transparent control cabinet arrangements and is thus more than a supplement of our two-phase-controlled SIRIUS 3RW30 soft starter range.

What are the benefits of the SIRIUS 3RW40?

The SIRIUS 3RW40 soft starter is seamlessly integrated in our SIRIUS portfolio for the control cabinet. As you might already know from experience with other SIRIUS devices, you will thus benefit from identical sizes and uniform connection systems. Regarding size: the particularly compact design of the SIRIUS 3RW40 is at most half as big as that of a comparable wye-delta* starter, making space wastage in the control cabinet a thing of the past. Also configuration and mounting are realized rapidly and easily thanks to 3-conductor connection.

What are the differences compared to the SIRIUS 3RW30?

In general, the SIRIUS 3RW40 offers all the advantages of the 3RW30. In addition, it offers intrinsic device protection and integrated motor protection functions. Just test it and you will be convinced.

How is the SIRIUS 3RW40 set?

Like with the SIRIUS 3RW30, the starting voltage, ramp-up and ramp-down time of the voltage ramp, as well as the current limiting, can be comfortably set via finely adjustable rotary potentiometers. The nominal motor current, tripclass and reset of the motor overload function are adjusted via potentiometers and buttons, as is familiar from the SIRIUS overload relays.



What are its outstanding characteristics? The SIRIUS 3RW40 comes with the new patented control principle "polarity balancing" for the avoidance of DC components in two-phase-controlled soft starters. With two-phase-controlled soft starters, the current resulting from the overlapping of the two controlled phases flows in the uncontrolled phase. For physical reasons, this results in an asymmetric distribution of the three phase currents during the motor's startup process. Even though this distribution cannot be influenced, it is uncritical in most applications. However, besides this asymmetry, the power semiconductors' control during the two controlled phases also produces the above-mentioned DC components, which may lead to a loud motor noise with starting voltages lower than 50%. "Polarity balancing" reliably eliminates these DC components during the start-up phase. It generates an even motor start-up in terms of speed, torque and current rise. The acoustic quality of the start-up process almost reaches the quality of a three-phase-controlled start-up. This is made possible by the continuous dynamic alignment and

balancing of current half-waves with different polarity during the motor start-up.

Does the SIRIUS 3RW40 feature additional protective functions?

The SIRIUS 3RW40 is equipped with optimum functionality as standard. An integrated bypass contact system reduces the soft starter's heat loss during operation. This reliably prevents heating of the switching device's environment. The integrated motor overload protection in accordance with IEC 60 947-4-2 makes an additional overload relay unnecessary, to save space in the control cabinet and reduce the wiring costs in the feeder. The overload tripclass can be variably set via a 4-level rotary potentiometer. In addition, intrinsic device protection prevents the thyristors' thermally overloading and resulting defects of the power components. Optionally, the thyristors can also be protected against short circuit with SITOR semiconductor fuses. Also inrush current peaks are reliably eliminated, thanks to settable current limiting.



Does the SIRIUS 3RW40 offer diagnostics options?

Yes, thanks to integrated status and fault monitoring. LEDs provide information on the operating state as well as possible faults, e.g. impermissible release time (CLASS setting), mains or phase failure, missing load, thermal overload or device fault. The two integrated output relays also indicate the operating state and fault signals.

Is thermistor motor protection available

Device versions with thermistor motor protection evaluation are available up to a rating of 55 kW (with 400 V). A "Thermoclick" measuring sensor or PTC (type A) can be directly connected. In addition to thermal motor overload, wire breakage and short circuit in the sensor circuit effect a disconnection of the soft starter.

What about reset options?

After the soft starter has tripped, various reset options are available, like for intrinsic device and motor overload protection: manual or via the reset button, automatic or (up to 55 kW) remotely via short-term control voltage interruption.

Is replacement easy?

Yes, also the 3RW40 is equipped with removable control terminals. The wiring on the terminal thus remains intact ("permanent wiring") in case of replacement and the terminals are simply snapped onto the new 3RW40, which saves a considerable amount of time.

How about accessories?

We offer a comprehensive range of accessories for our soft starters, e.g. box terminal blocks, accessories for mechanical reset and a module for remote reset (for ratings > 75 kW) as well as a sealing cover and easy-to-mount terminal covers for optimum touch protection.

Furthermore, snap-on fans are available for the devices up to 55 kW which facilitate mounting of the SIRIUS 3RW40 in almost any installation position and support higher switching duties. In addition, connection modules for electrical and mechanical connections between circuit breaker and soft starter as well as labeling strips from the SIRIUS range are available.

Soft Starters for High-Feature Applications

SIRIUS 3RW44 in Detail



Equipped with maximum functionality, the all-round talent SIRIUS 3RW44 even masters difficult start-up and stopping processes in a soft manner. Thanks to innovative torque control, it can be employed for drives up to a power rating of 710 kW (with 400 V) in standard circuit or up to 1200 kW in inside-delta circuit. The functionality designed for ease of operation facilitates optimum operating comfort.

What are the benefits of the SIRIUS 3RW44?

Thanks to its particularly compact design, which is a characteristic of the entire range of SIRIUS soft starters, the SIRIUS 3RW44 is the ideal solution when space-saving and transparent control cabinet arrangements are required. For optimized motor start-up and stopping, the innovative SIRIUS 3RW44 offers an attractive and efficient alternative to frequency converters. The new torque control and a settable current limiting allow for the use of our high-feature soft starters in almost any application. The SIRIUS 3RW44 guarantees reliable prevention of torque surges and current peaks during motor starting and stopping. This reduces costs both for switchboard dimensioning as well as machinery maintenance.

Whether for standard (in-line) or insidedelta circuits – the SIRIUS 3RW44 offers saving potentials, particularly in terms of size and device costs.



How is the SIRIUS 3RW44 commissioned and operated?

Commissioning of the SIRIUS 3RW44 is particularly fast and easy, thanks to a modern and ergonomic menu system. This is facilitated by a keypad with a menu-driven, multi-line graphical display with background illumination. The optimized motor start-up and stopping can be realized rapidly, easily and safely via only few settings in several preselected languages. 4-key operation and plain text displays on every menu item ensure transparent parameterization and operation at all times. Via the display field, measuring and operating values, as well as warning and fault messages, are continuously displayed during operation and with the control voltage connected. In addition, an external display and operator module can be connected to the soft starter via a connection cable, for example to read actual values directly from the control cabinet door.

Does the SIRIUS 3RW44 feature additional protective functions?

The SIRIUS 3RW44 is equipped with optimum functionality as standard. An integrated bypass contact system reduces the soft starter's heat loss during operation. This reliably prevents heating of the switching device's environment. Moreover, it features an internal device overload protection against thermal overload of the power section's thyristors, e.g. caused by impermissibly high starting operations.

The wiring costs for installation of an additional motor overload relay are eliminated as the SIRIUS 3RW44 also

masters this function. Whether settable release times or thermistor motor protection: With SIRIUS 3RW44, you are always on the safe side! Optionally, the thyristors can also be protected against short circuit with SITOR semiconductor fuses. Also inrush current peaks are reliably eliminated thanks to settable current limiting.

Is the SIRIUS 3RW44 communicationcapable?

Yes, the SIRIUS 3RW44 can be optionally retrofitted with a PROFIBUS DP module. Thanks to its communication capability as well as its control inputs and programmable relay outputs, it can be very easily and rapidly integrated in superior control systems.

What are the advantages in terms of power loss?

Normally, approx. 3 W heat load are generated per every ampere flowing through an actuated thyristor. For motors with 250 kW (with 400 V), this results in a heating power of roughly 1500 W in the switching device's environment. The SIRIUS 3RW44 coolly handles these hot conditions. As a standard, all versions are equipped with mechanical bypass contacts, which bridge the thyristors after detected motor startup. This considerably reduces the heat loss occurring during the soft starter's nominal operation. The intelligent hybrid concept, which electronically starts the motor via thyristors and operates it electro-mechanically via contactor contacts during rated operation, improves the feeder's overall efficiency

and additionally reduces the costs for control cabinet dimensioning.

What if lower speeds are required?

For positioning and set-up tasks, a creep speed function allows for the motor's control in both directions of rotation – with reduced torque and settable low speed.

What about stopping quickly?

For the fast shutdown of driving loads, a new, combined DC brake function is offered for the SIRIUS 3RW44.

How about accessories?

We offer a comprehensive range of accessories for our soft starters, e.g. an external display and operator module for installation in the control cabinet door or the plug-on PROFIBUS DP module. Circuit breaker and soft starter as well as labeling strips from the SIRIUS range are available.

Furthermore, easy-to-mount box terminal blocks and sealing covers from the SIRIUS portfolio are available for optimum touch protection.



Soft Starter ES

Comfortable Parameterization and Evaluation of SIRIUS 3RW44

With the Soft Starter ES software, the SIRIUS 3RW44 high-feature soft starters can be rapidly and easily parameterized, monitored and diagnosed in service cases. The device parameters can be directly set at the PC and transferred to the soft starter via a serial cable or PROFIBUS connection.

Advantages of Soft Starter ES

- Transparent online and offline setting of device functions and parameters
- Effective diagnostics functions on the soft starter and visualization of important measured values
- Oscilloscope function (trace) for recording measured values and events
- Time savings through reduced commissioning times

Practical versions, easy licensing

Soft Starter ES is available in three versions which differ in terms of operating comfort, functional scope and price. A comfortable process eases licensing. Whether Basic, Standard or Premium - the suitable license can be rapidly and comfortably downloaded online. Only the actually utilized scope is invoiced and cost-favorable upgrades are offered. With the trial license, you can test the software's functionality without risk for 14 days. The floating license enables access to any user – independent of the number of installations. Particularly the Standard and Premium license quarantee optimum engineering efficiency.

Easy creation of templates

For devices with minor differences, the central modification of few parameters in many identical devices or for the easy parameterization of identical applications, Soft Starter ES offers a powerful tool for the simplified creation of parameter files. The typical file contains all possible parameters, which can all be adjusted by the user. The files can also be easily and rapidly transferred to other devices.

Comfortable parameterization with group function

For the comfortable parameterization of many devices or applications of the same type, the Soft Starter ES software offers a group function which, in connection with the above-described templates, reads out the parameterization of a group of devices and automatically saves it in a separate file, or transfers the parameters from a group of files to the corresponding device groups.

Teleservice via MPI

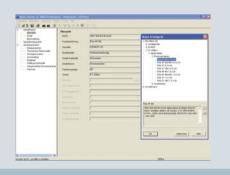
The Soft Starter ES Premium version supports use of the MPI teleservice for remote device diagnostics. This eases diagnostics and maintenance and reduces the response time in service cases.

Standard-compliant print-outs

The software tool considerably simplifies machine documentation as it facilitates the parameterization's print-out in accordance with DIN EN ISO 7200. The elements to be printed can be simply selected and compiled as required.

Parameterization

Access is either realized via the serial device interface or, with PROFIBUS DPV1-capable soft starters, via any PROFIBUS point. Furthermore, the Premium version supports integration in STEP 7 HW-Config.



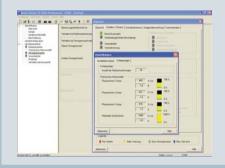
Commissioning

The soft starters can also be controlled and tested without DP master. For this, the software can either be connected with the soft starters via a point-to-point connection (serial) or communicate with the individual devices via any PROFIBUS point (DPV1).



Diagnostics / Maintenance

Statistical data (e.g. operating hours, switching cycles, switch-off currents, etc.) can be read out for preventive maintenance.



Program versions:

1. Basic

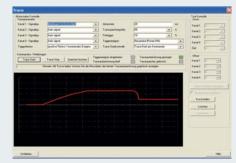
- Local interface
- Basic functions for device parameterization

2. Standard

- Local interface
- Extended functionality

3. Premium

- Local and PROFIBUS interface
- Full functionality
- Improved comfort



Oscilloscope function with SIRIUS 3RW44 soft starters

Our delivery types:

Floating License

Full software version on CD with license

Upgrade

Upgrade from an old to a new, functionally extended version, e.g. upgrade from Soft Starter ES 2006 to Soft Starter ES 2007

Powerpack

Special package for converting to a more powerful version with extended functionality within the same software version, e.g. Powerpack Soft Starter ES 2007 for conversion from Standard to Premium

Software update service

Our special service automatically provides you with all service packs and upgrades for up-to-dateness at all times

License download

Comfortable license key download from the A&D Mall for easy and fast purchase of additional software licenses

Order data Soft Starter ES

| Program versions | Order number |
|-------------------------|---------------------|
| Premium package | |
| Floating license | 3ZS1 313-6CC10-0YA5 |
| License download | 3ZS1 313-6CE10-0YB5 |
| Upgrade | 3ZS1 313-6CC10-0YE5 |
| Powerpack | |
| (Standard > Premium) | 3ZS1 313-6CC10-0YD5 |
| Software update service | 3ZS1 313-6CC10-0YL5 |
| | |
| Standard package | |
| Floating license | 3ZS1 313-5CC10-0YA5 |
| License download | 3ZS1 313-5CE10-0YB5 |
| Upgrade | 3ZS1 313-5CC10-0YE5 |
| Powerpack | |
| (Standard > Standard) | 3ZS1 313-5CC10-0YD5 |
| Software update service | 3ZS1 313-5CC10-0YL5 |
| | |
| Basic package | |
| Floating license | 3ZS1 313-4CC10-0YA5 |
| License download | 3ZS1 313-4CE10-0YB5 |
| | |

Operating system requirements: Windows 2000 Professional or Windows XP Professional; processor: ≥ 800 MHz; required hard disk memory: approx. 150 MB; CD-ROM drive; serial interface

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SIRIUS Soft Starters in Practical Use

Application Examples



SIRIUS 3RW30 – for soft reversing operation of roller conveyors

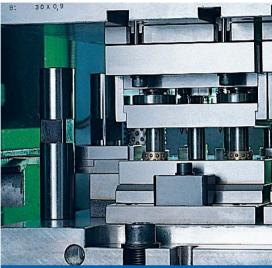
Roller conveyors are, for example, employed in parcel distribution systems for transporting parcels to and from individual work stations. For this purpose, the direction of rotation of the used 11 kW motor has to be adjustable in order to realize both conveyance directions.

Roller conveyors pose high requirements:

- The roller conveyor has to start smoothly to prevent damage to the transported goods due to slipping or tilting.
- The machine's wear and maintenance intervals should be minimized, which is why slippage of the belt drive during start-up must be prevented.
- The current load upon motor start-up is to be reduced by means of a voltage ramp.
- The feeder assembly should be as small as possible so as to not exceed the control cabinet's space capacity.

Optimum performance with SIRIUS 3RW30:

- The roller conveyor is rapidly accelerated to the nominal speed without torque surges thanks to optimum setting of the voltage ramp during start-up.
- The motor's starting current is reduced.
- Reversing operation of the conveyor belt is realized through contactor interconnection with SIRIUS 3RA13 reversing contactor combinations.
- Feeder and motor protection are realized with SIRIUS 3RV circuit breakers.
- The use of SIRIUS system components guarantees maximum wiring reductions and space savings.



SIRIUS 3RW40 – for soft starting of hydraulic pumps

In addition to many further application areas, the SIRIUS 3RW40 is optimally suited for the soft start and stop of hydraulic pumps. With a rating of 200 kW, these soft starters are for example used in the production of sheet parts, to drive the respective presses.

Hydraulic pumps require sensitive drives:

- The motor's starting current has to be reduced to minimize the load of the superior mains transformer during start-up.
- Normally, integrated motor protection is called for to reduce wiring expenditures and space requirements in the control box.
- The hydraulic pump is to be started and stopped in a soft manner, to minimize the mechanical load on the drive and the pump caused by the torque surge during starting and stopping.



The SIRIUS 3RW40 offers this sensitivity as a standard:

- The settable current limiting of the SIRIUS 3RW40 limits the load of the mains transformer during motor start-up.
- Motor protection is ensured by the motor overload relay with settable tripclasses integrated in the soft starter.
- The adjustable voltage ramp ensures the hydraulic pump's start and stop without torque surges.



SIRIUS 3RW44 – for soft starting of milling machines with DC braking

For the production of motor blocks, the required bores are drilled in the motor's aluminum block by means of a milling head. Due to the milling head's high inertia, shutdown of the 15 kW motor is subject to long stopping times, which cause long downtimes for tool changes and set-up operation.

The start-up behavior of milling machines requires maximum functionality:

- To prevent excessive wear of the drive belts due to slippage, milling machines require an optimized and torquecontrolled start-up behavior.
- The motor's starting current has to be reduced to minimize the mains load.
- The motor has to be braked with DC current to reduce the machine's long stopping times.

Competent solution with SIRIUS 3RW44:

- To optimally master the difficult starting conditions, the SIRIUS 3RW44 with torque control and dynamic DC brake function is employed.
- Slippage of the belts during startup is prevented by torque control with adjusted torque limiting function.
- This rapidly accelerates the milling head to the nominal speed without slippage of the belt drives.
- A higher-level current limiting function reduces the motor's starting current to a set maximum value.
- The optimum setting of the dynamic DC brake function shuts the milling head down in minimum time.
- Also motor and device overload protection is excellently mastered by the SIRIUS 3RW44 high-feature soft starter.

© Siemens AG 2008 Overview of SIRIUS Soft Starters

Technical Data

| Overview of SIRIUS soft starters | | Standard applications | High-feature applications | |
|---|----|--|------------------------------|--|
| | | SIRIUS 3RW30 | SIRIUS 3RW40 | SIRIUS 3RW44 |
| Rated current at 40 °C | А | 3.6 106 | 12.5 432 | 29 1214 |
| Rated voltage | V | 200 480 | 200 600 | 200 690 |
| Motor power with 400 V (standard circuit) | kW | 1.1 55 | 5.5 250 | 15 710 |
| Motor power with 400 V (inside-delta circuit) | kW | - | - | 22 1214 |
| Ambient temperature (operation) | °C | -25 60 | -25 60 | 0 60 |
| Soft start / stop | | x ¹⁾ | Х | x |
| Voltage ramp | | Х | х | x |
| Starting / stopping voltage | % | 40 100 | 40 100 | 20 100 |
| Ramp-up and ramp-down time | S | 0 20 ¹⁾ | 0 20 | 1 360 |
| Torque control | | - | - | x |
| Starting / stopping torque | % | - | - | 20 100 |
| Torque limiting | % | - | - | 20 100 |
| Ramp time | S | - | - | 1 360 |
| Integrated bypass contact system | | Х | х | x |
| Intrinsic device protection | | - | х | x |
| Motor overload protection | | - | х | x |
| Thermistor motor protection | | - | x ²⁾ | x |
| Integrated remote reset | | - | X ³⁾ | x |
| Settable current limiting | | - | - | x |
| Inside-delta circuit | | - | - | x |
| Breakaway torque | | - | - | x |
| Creep speed in both directions of rotation | | - | - | x |
| Pump stop | | - | - | X ⁴⁾ |
| DC braking | | - | - | X ^{4) 5)} |
| Combined braking | | - | - | x ^{4) 5)} |
| Motor heating | | - | - | x |
| Communication | | - | - | with PROFIBUS DP (option) |
| External display and operator module | | - | - | (option) |
| Status measured value display | | - | - | x |
| Error log | | - | - | x |
| Event list | | - | - | x |
| Non-return pointer function | | - | - | x |
| Trace function | | - | - | x ⁶⁾ |
| Programmable control inputs and outputs | | - | - | x |
| Number of parameter sets | | 1 | 1 | 3 |
| Parameterization software (Soft Starter ES) | | - | - | x |
| Power semiconductors (thyristors) | | 2 controlled phases | 2 controlled phases | 3 controlled phases |
| Screw-type terminals | | х | х | х |
| Spring-loaded terminals | | Х | х | х |
| UL/CSA | | х | х | х |
| CE mark | | х | х | х |
| Soft starting and heavy-duty starting conditions | | - | - | X ⁴⁾ |
| Configuration support | | Win-Soft Starter, elec Technical Assistance - | | |
|) 3RW30 only soft start) Optionally up to size S3 (device version)) With 2PW40.2, up to 2PW40.4 ; | | 4) Overdimensioning of s if required 5) Not possible with inside | | X = Function available - = Function not available |

3) With 3RW40 2. up to 3RW40 4.; with 3RW40 5. and 3RW40 7. optional 5) Not possible with inside-delta circuit6) Trace function with Soft Starter ES software

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Effective Selection of SIRIUS Soft Starters

| Recommended parameter settings | | | | | | |
|--------------------------------|----------|----------|-----------------|----------------|-------|-------------------|
| Application | UStart % | tStart S | llimit 3RW40/44 | UKick 3RW44 | tstop | CLASS 3RW40/44 |
| Pump | 40 | 10 | 3–4хІм | | 10 | 10 |
| Heat pump | 40 | 10 | 3-4хІм | | 10 | 10 |
| Hydraulic pump | 40 | 10 | 3-4хІм | | 0 | 10 |
| Press | 40 | 10 | 3-4хІм | | 0 | 10 |
| Belt conveyor | 70 | 10 | OFF (e.g. 5xlm) | | 5 | 10 |
| Roller conveyor | 60 | 10 | OFF (e.g. 5xlм) | | 5 | 10 |
| Screw conveyor | 50 | 10 | OFF (e.g. 5xlm) | | 5 | 10 |
| Escalator | 60 | 10 | OFF (e.g. 5xlm) | | 5 | 10 |
| Piston compressor | 40 | 10 | 4xIM | | 0 | 10 |
| Screw compressor | 50 | 10 | 4xIM | | 0 | 10 |
| Small fan | 40 | 10 | 4xIM | | 0 | 10 |
| Centrifugal blower | 40 | 10 | 4xIM | | 0 | 10 |
| Bow thruster | 40 | 10 | 4xIM | | 0 | 10 |
| Agitator | 40 | 30 | 3-4хІм | | 0 | 20 |
| Extruder | 70 | 10 | OFF (e.g. 5xlm) | | 0 | 20 |
| Turning machine | 40 | 30 | 3-4хІм | | 0 | 20 |
| Milling machine | 40 | 30 | 3-4хІм | | 0 | 20 |
| Large fan | 40 | 60 | 3-4xIM | | 0 | 30 |
| Circular saw / band saw | 40 | 60 | 3-4хIм | | 0 | 30 |
| Centrifuge | 40 | 60 | 3–4хІм | | 0 | 30 |
| Mill | 40 | 60 | 3–4xIM | 80% 300 ms | 0 | 30 |
| Crusher | 40 | 60 | 3-4хІм | 80% 300 ms | 0 | 30 |

Typical application areas

Standard applications

- Construction / construction material machines
- Presses
- Escalators
- Transportation systems
- Pumps
- Fans
- Air-conditioning systems
- Ventilators
- Conveyor belts
- Compressors and cooling systems
- Drives

High-feature applications

- Pumps (also oil industry)
- Ventilators
- Compressors
- Industrial cooling systems
- Industrial refrigerating systems
- Water transportation
- Conveyor systems and elevators
- Hydraulic systems
- Machine tools
- Mills
- Saws
- Crushers
- Mixers
- Centrifuges



The suitable soft starter for your application

The Win-Soft Starter selection and simulation program facilitates a fast and highly accurate selection of a suitable SIRIUS soft starter for your respective application. Even under difficult boundary conditions – for example with high moment of inertia or frequent switching cycles – the startup and stop of your motor is simulated, displayed and the optimum soft starter selected.

Your advantages

With Win-Soft Starter, laborious manual calculations are unnecessary. Based on individual parameters – from mains conditions to motor and load data, down to specific requirements – the program determines the suitable soft starter. Furthermore, various sample loads can be called up: In consideration of the operating modes, the motor start-up and stop is precisely simulated, including indicated torques, starting currents and speed curves.

Place your order now

The Win-Soft Starter CD-ROM can be obtained for a small cost under the following order number:

E20001-D1020-P302-V2-7400

or can be downloaded free of charge from www.siemens.com/lowvoltage/demosoftware

Our Technical Assistance will be pleased to help you with any questions:

www.siemens.com/lowvoltage/technical-assistance

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- Via e-mail:
- technical-assistance@siemens.com ■ Via fax:
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At

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Or contact us personally:

- Via information hotline: 01805/25 36 11
- or Fax: 01805/23 56 12

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| SIRIUS Industrial Controls | SWITCHING | SIRIUS Solid-state switching devices | | |
|---|-------------------------------|---|--|--------------------------------------|
| | STARTING | SIRIUS Infeed system SIRIUS Soft starter | SIRIUS Engineering load feeders SIMATIC ET 200pro | SIRIUS Motor starter |
| Newsletter Always up to date: Our regular newsletter provides you | MONITORING AND CONTROLLING | SIRIUS Motor management system SIMOCODE pro | SIRIUS Relays SIRIUS Safety Relays | |
| with topical information on all sub- jects of industrial controls and power distribution. Simply register at www.siemens.com/lowvoltage/ newsletter | DETECTING | SIRIUS Position switches | | |
| Please send the selected in- formation material to the fol- lowing address: | COMMANDING AND SIGNALING | SIRIUS Pushbuttons and indicator lights | SIRIUS Signaling columns and integrated signal lamps | SIRIUS Cable-operated switches |
| Company/Department | SUPPLYING | SIVENT Fans | SIDAC Reactors & filters | SIDAC & SIVENT Solutions |
| Name | | Motor Starter ES | SIMOCODE ES | |
| Street, Postal Code/City | ENGINEERING | Soft Starter ES | | |
| Telephone/Fax | ORE | SIRIUS Safety Integrated | AS-Interface | SIRIUS Connection systems |
| E-mail | SIRIUS AND MORE | ECOFAST | AS-i News | SIRIUS Modular system |

Siemens AG Industry Sector Industry Automation P.O. Box 48 48 90327 NUREMBERG GERMANY

www.siemens.com/softstarter

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Dynamics Reinterpreted

The Comprehensive Range of SIRIUS Soft Starters



sniris



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The Range at a Glance

Overview of SIRIUS soft starters

| Superview of accessories and spare parts for SUIAIS for SUIAIS and spare parts of the second s | | | | | | |
|---|----|-----------------------|---------------------|------------|--------------|-------------|
| əziS | | mm 2.22 | 005 | OS | ZS | ٤S |
| Permissible ambient temperature | ⊃₀ | -52 *** +60 | -52 +60 | -52 +60 | -52 *** +60 | -52 +60 |
| 2° 0∂ 16 | А | 2.2 | ₽1/11/2/S.2\£ | 11/26/31 | 39/53/60 | 06/99 |
| 2° 02 16 | А | 5.6 | 21/21/8/9/2 | 73/29/34 | 42/58/62 | 86/EZ |
| 2° 0≯ 16 | А | 3 | 9.71/2.21/9/2.8/9.5 | 52/35/38 | 42/63/72 | 901/08 |
| (655-74) e (AC-53a) | | | .гоемяе | 3RW302. | звмзоз. | 3RW304. |
| Rated frequency | ΖH | (%0↓∓) 09/0⊆ | +/%0L-)09/05 | (%01 | | |
| epetlov priterage Agentage | Λ | AC 200 400 (±10%) | AC 200 480 (| (%0↓+/%⊆↓- | | |
| Power electronics | | 3KW3003CB54 | звwзов.4 | | | |
| Rated frequency | zH | (%0↓∓) 09/0⊆ | (%0↓∓) 09/0⊆ | | (%0↓∓) 09/0⊆ | |
| Rated control supply current | Am | approx. 25 4 | approx. 50 | | approx. 25 2 | 07 |
| Rated control supply voltage | Λ | VC/DC 24 230 (∓10%) | AC/DC 24 (±20% | (| VC/DC 110 53 | %0l+/%⊆l-)0 |
| Control electronics | | 38W3003CB54 | звмзовво. | | звмзовв | • |
| | | | | | | |
| | | SIRIUS 3RW3003 | อยพลย รบเลเร | | | |
| | | snoiteoilqqe brebnet2 | | | | |

| suel | - | - | - | - | - | | | | |
|--|----------------|-------------|-------------|---------------|---------------|--|--|--|--|
| Spare parts | | | | | | | | | |
| suej | _ | - | - | - | - | | | | |
| Connection cable (e.g. Z.S m) 3RW44 ext. display module | - | - | - | - | - | | | | |
| External display and operator module | - | - | - | - | - | | | | |
| 9ROFIBUS DP communitation module | - | - | - | - | - | | | | |
| nətqaba əsətrətni 82U | | | | | | | | | |
| PC cable for connection PC–3RW44 | - | - | - | - | - | | | | |
| muimererisation and service software Soft Starter ES 2007 Premium | | | | | | | | | |
| Parameterization and service softs are Soft Starter ES 2007 Standard | | | | | | | | | |
| Parameterization and service software Soft Starter ES 2007 Basic | - | - | - | - | - | | | | |
| Sealing cover | 3891902 | - | - | 3KW4900-0PB10 | 3KW4900-0PB10 | | | | |
| Connection cover for cable lug and busbar connection | - | - | - | - | 1434-0461795 | | | | |
| zlenimst tor box terminals | - | - | - | 3RT1936-4EA2 | 3RT1946-4EA2 | | | | |
| | - | - | - | - | - | | | | |
| | | | | | | | | | |
| Terminal block | - | - | - | - | - | | | | |
| Accessories | 3BW3003 | 3BW301. | 3KW302. | звмзоз. | 38W304. | | | | |
| | SIRIUS 3RW3003 | авила звизо | פואוט אאשסט | | | | | | |

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Please observe the configuration notes and boundary conditions on page 14 and 15!

| | (100111011000000000 |
|---------------------------|---------------------|
| 3RW40B.5 | 3RW40B.4 |
| (%0L∓) 09/0S | (%0↓∓) 09/0⊆ |
| approx. 25 20 | approx. 50 |
| AC/DC 110 230 (-15%/+10%) | AC/DC 24 (∓20%) |
| 3RW40B1. | зкพ40во. |
| | |

| | ZS | | ٤S | 9S | ZIS |
|----------------------|-------------|--------|-------------------------|------------------------|------------------------|
| 09+ | -52 *** +60 | | -52 *** 90 | -52 […] +90 | -52 *** 90 |
| 1/26/31 | 09/23/68 | | 06/99 | SZ1/001 | 180/212/580/332 |
| \$\56\34 | 42/58/62 | | 86/EZ | St1/711 | 202/248/312/382 |
| 52/35/38 | 72/89/57 | | 901/08 | 134/162 | 230/280/326/432 |
| 402. | 3RW403. | | 3KW404. | 3KW405. | 3RW407. |
| (%0↓∓) 09/0⊆ | | 09/05 | (%0L±) | (%0L∓) 09/0S | (%0↓∓) 09/0⊆ |
| AC 200 480 (−15%/+10 | (%) | AC 400 | (%0ℓ+/%≤ℓ−) 009 … 0 | AC 200 460 (−15%/+10%) | AC 400 600 (-15%/+10%) |
| 3RW40B.4 | | зкма | S'8''-''0t | 3KW40BB.4 | 3KW40BB.5 |
| (%0↓∓) 09/0⊆ | | 09/05 | (%0↓∓) | (%0↓∓) 09/0⊆ | (%0↓∓)09/0⊆ |
| approx. 50 | | soudde | x. 25 20 | - | - |
| AC/DC 24 (±20%) | | AC/DC | 110 ··· 530 (-12%/+10%) | AC 115 (-15%/+10%) | ∀C 530 (−12%/+10%) |
| ЗКМ40ВО. | | зкма | t0"-"B1 | 3KW40BB3. | 3KW40BB4. |
| John | | | | | |

| - | - | - | - | | | |
|--------------------------------------|--------------------------------------|---------------|---------------|-----------|--|--|
| - | - | - | - | | | |
| | | | | | | |
| - | - | - | - | | | |
| | | | | | | |
| - | - | - | - | | | |
| 3KW4900-0PB00 | 3KM4900-0PB00 | 3KW4900-0PB10 | 3KW4900-0PB10 | 900-0P810 | | |
| 1A34-9661785 | 3RT1956-4EA1 | 3RT1946-4EA1 | - | | | |
| 3RT1966-4EA2 | 3RT1956-4EA2 | 3RT1946-4EA2 | 3RT1936-4EA2 | | | |
| - | 3ዩፐ1956-4G up to 120 mm ² | - | - | | | |
| 7871966-4G up ئە 242 mm ² | mm 07 of qu ס4-226۲٦٩٤ | - | - | | | |
| 3RW407. | 3KM402. | 3KW404. | 3KW403. | ·05. | | |
| 13 3KM40 | | | | | | |

3RW4947-8VB00

3RW4947-8VB00

3RW4947-8VB00

3RW4947-8VB00

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928-8VB00

928-8VB00

04WAE 2U

Л 052 ЭА 04Х√8-740 АС 230 V

V 211 DA 05XV8-7494W85

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7 052 JA 04236-8VX40 AC 230 V

V 211 DA 05XV8-864W85

_

| - | | - | |
|------------------------------------|--------------------|--------------------------|-----------------------|
| 09+ 0 | | 09+…0 | 09+ . |
| 026 *** 62 | | 53 520 | 0∠6 … |
| 9201 92 | | 9201 92 | 9۲۵۲ |
| 29 1214 | | 29 1214 | ٩٢٢٢ |
| 22 versions | | 22 versions | versions |
| (%0↓∓) 09/05 | | (%0↓∓) 09/0⊆ | (%0レ∓) 09 |
| ∀C ⊄00 690 (−15%/+10%) | | (%0l+/%≤l−) 009 … 00t ⊃A | (%0↓+/%⊆↓−) 09⊅ … 007 |
| 3ßW44BC.6 | | 3KW44BC.5 | M44BC.4 |
| | (%0L±) 09 … 0S | | (%0≀±) 09 … |
| | - | | |
| | VC 530 (-12%/+10%) | | (%0L+/%5L-) 5LL |
| | 3KW44BC4. | | M44BC3. |
| | | | |
| | | | 15 3KW44 |

| V 055 04X40 AC 230 V | У 052 ОА 04XV8-9564WЯ5 | 3RW4947-8VX40 AC 230 V | 38W4957-8VX40 AC 230 V |
|----------------------|---------------------------------------|--------------------------|-------------------------------|
| V4936-8VX30 AC 115 V | V 211 ОЕХV8-9564WЯ5 | 3RW4947-8VX30 AC 115 V | 3RW4957-8VX30 AC 115 V |
| | | | |
| | - | - | - |
| 0-00A80-5567= | 30FF7933-08A00-0 | 3UF7933-08A00-0 | 3UF7933-0BA00-0 |
| 000A0-0064V | 3RW4900-0AC00 | 3KW4900-0AC00 | 3RW4900-0AC00 |
| N4900-0KC00 | 3KM4900-0KC00 | 3KM4900-0KC00 | 38M4900-0KC00 |
| (5 100-3PC07 | 25X5 100-3PC07 | 25X5 100-3PC07 | 25X5 100-3PC07 |
| 0-00AA0-0467= | 0-00AA0-04973UE | 0-00AA0-04673UE | 0-00AA0-04677US |
| 51313-6CC10-0YA5 | 3251313-6CC10-0YA5 | 3251313-6CC10-0YF5 | 3ZS1313-6CC10-0YA5 |
| 24313-5CC10-0YA5 | 3ZS1313-5CC10-0YA5 | 3ZS1313-5CC10-0YA5 | 3ZS1313-5CC10-0YA5 |
| 51313-4CC10-0YA5 | 3Z51313-4CC10-0YA5 | 3ZS1313-4CC10-0YA5 | 3Z51313-4CC10-0YA5 |
| | - | - | - |
| ۲936-4EA1 | 1A34-9261785 | 1A34-8961795 | - |
| 2A34-9201 | 3RT1956-4EA2 | СА∃4-∂∂6г1Я£ | - |
| | 3RT1956-4G up to 1 20 mm ² | - | - |
| ٨jddn | | | |
| ədoɔs ui pəpn | 3RT1955-4G up to 70 mm ² | 2mm 04C of qu D4-9961795 | - |
| V442. | 3KW443. | 3KW444. | 38M442`\38M446` _{J)} |
| 44W35 201 | | | |
| | | | |

1) Front-installed fan with 3RW446. 3RW4966-8VX30 AC 1 1 5 V 3RW4966-8VX40 AC 230 V

SIRIUS 3RW30 for normal starting

| | | | | | i | 21 bns 41 90 | eq no snoitibnoc | հւթրուցին | iguration notes | Please observe the conf |
|--------------------|---|------------|------------------------------|--|---|-----------------------------------|--|---|--|--|
| | | | | | | | | C 24 230 V | | ۲) Rated control steply) (ا dm9sse عاماة-bnst) (ک |
| L AC | AC/DC 110 23(| | | | | | | | | |
| 0 | AC/DC 24 V | | | ۶N | ply voltage | dns lortrol | t for rated co | uəwə <mark>ldd</mark> ns | Order No. | |
| | ed (a violación da loade | | | | | ad fa war | | | | |
| terminals | with screw-type | | | | | aavt noit | t for connec | uəməlaauz | Order No. | |
| 38W3047-□BB□4 | - | SZ | 30 | 30 | 86 | _ | 55 | 30 | 90 L | |
| 3BM30 49- 🗆 BB 🗆 4 | - | 05 | SZ | 50 50 | ٤Z | _ | 57 | 20 27 | 08 | |
| 3KM3038- 🗆 BB 🗆 4 | - | 40 | 50 | 50 50 | 79 | - | 22 | 55 | ZL | |
| 3KM3032- 🗆 BB 🗆 🕇 | - | 40 | 50 | SI | 85 | _ | 30 | 5.81 | 59 | |
| 3KM30 39- 🗆 BB 🗆 🕇 | - | 30 | SL | OL | 45 | _ | 22 | LL | SÞ | |
| 3KM30 58- 🗆 BB 🗆 🕇 | - | 52 | ٥L | ٥L | 34 | - | 2.81 | ١L | 38 | |
| 3KM30 27- 🗆 BB 🗆 4 | - | 50 | S.T | S.T | 67 | - | S٢ | S.T | 32 | |
| 3KM30 56- 🗆 BB 🗆 🕈 | - | S۱ | S | S | 53 | - | 11 | 5.5 | 52 | |
| 3KM30 18- 🗆 BB 🗆 🕈 | - | 01 | 3 | 3 | ۲L | - | S.7 | 4 | 9 [.] 21 | |
| 3KM30 12- 🗆 88 🗆 4 | - | S.T | 3 | 3 | ll | - | 5.2 | 3 | 5.21 | |
| 3KM30 19- 🗆 BB 🗆 4 | - | S | Z | 7 | 8.T | - | 4 | 2.2 | 6 | |
| 3KM30 J4- 🗆 BB 🗌 4 | - | 3 | L | l | 8.4 | - | ε | ۲.5 | S.8 | |
| 3BW30 13- 🗆 BB 🗆 4 | - | ۲.5 ۲ | S.0 | S.0 | 3 | - | ۲.5 ۲ | S7.0 | 9.5 | 200 480 |
| | | | | | | | siotom suo | asynchron | three-phase | Soft starters for |
| | dy | dy | dy | dy | (_Z ∀ | КW | КW | кw | (S ²) | ٨ |
| | ۸szs | V094 | 230 A | 200 A | (C | ۲005 | ↓00 | 230 <i>N</i> | (C | |
| | | | | | | | | | | |
| | beol-prinds dtiw | | | | | | | | | |
| | with screw-type | | | | | tion type | t for connec | uəwəlddns | Order No. | |
| | | - | S'0 | 5.0 | 5.6 | - | 1.1 | 0.55 | 3 | 500 400 |
| ↑ F slenimst | | | 5.0 | | | - | 1.1 | 0.55 | 3 | Soft starters for 200 400 |
| ↑ F slenimst | | – dy | 5.0 q 1 | | | - | 1.1 | 0.55 | 3 | |
| ↑ F slenimst | with screw-type | | | (L Se | izneuperi g | nidɔtiwa ı – | վքid bns ano Ր․Ր | 0.55 -up conditi | trste start 3 | Soft starters for |
| ↑ F slenimst | hp with screw-type http://with.com/type | dų | dy 230 ∧ | _{(۱} sə dy ۸00Z | A ۹ frequencio | WA – | ן.ן אפוֹל bns and Wy V004 | 0.55 tw 230 V 230 V | A starte start 3 | Soft starters for |
| ↑ F slenimst | hp with screw-type http://with.com/type | dų | dų | ss ¹⁾ hp 200 V čemperati | tnəidmA A frequencio | WA – | ן.ן אפוֹל bns and Wy V004 | 0.55 -up conditi kW 230 V temperatu | tnəidmA A tıste əlqmiz 3 | Soft starters for |
| ↑ F slenimst | hp with screw-type http://with.com/type | dų | dy 230 ∧ | ⁵² յ) բե 500 Λ Gemberati | le tnəidmA A A frequencio | WA – | ן.ן אפוֹל bns and Wy V004 | 0.55 -up conditi temperati VW V Conditi | le A A triste etart 3 3 | Ue Soft starters for |
| ↑ F slenimst | hp with screw-type http://with.com/type | dų ∧09₽ | μb 530 Λ nι.ε 20 °C | es ¹⁾ temperati ton V dh dh | current le Ambient A frequenci | 500 V KW Ididožiwa i | ן`ן bid bne and kW עש ל00 ע ס∘ 04 ס∘C | 0.55 Uesting temperati kW kW kW temperati | turent le Ambient A start start start 3 | Voltage Ve Soft starters for |
| ↑ F slenimst | hp with screw-type http://with.com/type | dų ЛОЭЪ | dy 230 ∧ | es 1) temperat voltage wotors w | le tnəidmA A A frequencio | entra WJ WJ Pointorius r | ן.ן אפוֹל bns and Wy V004 | 0.55 voltage Ue temperati X30 V kW | turent le Ambient A start start start 3 | Ue Soft starters for |
| 3RW30 03- □ CB54 | hp with screw-type http://with.com/type | dų ЛОЭЪ | ith rated ope 230 V Mp | es 1) temperat voltage wotors w | operating current le Ambient A Grequenci | entra WJ WJ Pointorius r | t, rated opera tre 40 °C tre 40 °C tre | 0.55 voltage Ue temperati X30 V kW | operating current le A A start start start start | operating Voltage Ve Soft starters for |
| 3RW30 03- □ CB54 | hp with screw-type http://with.com/type | dų ЛОЭЪ | ith rated ope 230 V Mp | es 1) temperat voltage wotors w | operating current le Ambient A Grequenci | entra WJ WJ Pointorius r | t, rated opera tre 40 °C tre 40 °C tre | 0.55 voltage Ue temperati X30 V kW | operating current le A A start start start start | Soft starting voltage V |
| 3RW30 03- □ CB54 | hp with screw-type http://with.com/type | dų ЛОЭЪ | ith rated ope 230 V Mp | es 1) temperat voltage wotors w | operating current le Ambient A Grequenci | entra WJ WJ Pointorius r | t, rated opera tre 40 °C tre 40 °C tre | 0.55 voltage Ue temperati X30 V kW | operating current le A A start start start start | Soft starting voltage V |
| 3RW30 03- □ CB54 | hp with screw-type http://with.com/type | dų ЛОЭЪ | ith rated ope 230 V Mp | es 1) temperat voltage wotors w | operating current le Ambient A Grequenci | entra WJ WJ Pointorius r | t, rated opera tre 40 °C tre 40 °C tre | 0.55 voltage Ue temperati X30 V kW | operating current le A A start start start start | Soft starting voltage V |
| 3RW30 03- □ CB54 | hp with screw-type http://with.com/type | dų ЛОЭЪ | ith rated ope 230 V Mp | es 1) temperat voltage wotors w | operating current le Ambient A Grequenci | entra WJ WJ Pointorius r | t, rated opera tre 40 °C tre 40 °C tre | 0.55 voltage Ue temperati X30 V kW | operating current le A A start start start start | Soft starting voltage V |

SIRIUS 3RW40 for normal starting (CLASS 10)



| ا ل (رح ^ا | motor protection | | atergrate | -1 | ropetiovvia | | 001CX 101 100 | aojaans | Old robyO | |
|-----------------------------|------------------|---------------------------------------|---------------|----------------|-------------|--------------|---------------|-----------|-----------|---------|
| 8 | | | Standard | | protection | nistor motor | ent for therr | wəjddns · | Order No. | |
| Z | sle | aded termin | Spring-lo | | | | | | | |
| | | slenimiet ec | Screw-typ | | | ection type | ent for conn | wəlqqus . | Order No. | |
| 38M4042-0080 | SZ | SZ | - | - | 86 | SZ | 55 | - | 90 L | |
| 3BW40 46- 🗆 🛛 B 🗆 | 09 | 05 | - | - | ٤Z | 55 | SÞ | - | 08 | |
| 3KM40 38- 🗆 🛛 B 🗌 | 09 | 40 | - | - | 79 | 57 | 75 | - | ZL | |
| 3KM4032-🗆 🛛 B 🗆 | 05 | 40 | - | - | 85 | Ζ٤ | 30 | - | 63 | |
| 3KM40 39- 🗆 🛛 B 🗌 | 40 | 30 | - | - | 45 | 30 | 72 | - | SÞ | |
| 3KM40 58- 🗆 🛛 B 🗆 | 30 | 52 | - | - | 34 | 22 | 2.81 | - | 38 | |
| 3KM40 51- 🗆 🛛 B 🗆 | SZ | 50 | - | - | 67 | 2.81 | S۱ | - | 32 | |
| 3KM40 59- 🗆 🛛 B 🗆 | 50 | S۱ | - | - | 53 | 31 | LL | - | 52 | |
| 3KM40 54- 🗆 🛛 B 🗌 | 01 | S.T | - | - | LL | 2.5 | 5.5 | - | 5.21 | 009 0 |
| 3BW4047-0080 | - | 52 | 30 | SS | 86 | - | 22 | 30 | 90 L | |
| 3KM40 49- 🗆 🛛 B 🗌 | - | D | SZ | 50 | ٤Z | - | 42 | 72 | 08 | |
| 3KM40 38- 🗆 🛛 B 🗌 | - | 40 | 50 | 50 | 79 | - | 28 | 72 | ZZ | |
| 3KM4031-🗆 🛛 B | - | 012 | 50 | S۱ | 85 | - | 30 | 78.5 | 89 | |
| 3KM40 39- 🗆 🛛 B 🗆 | - | 30 | SL | OL | 45 | - | 22 | ll | SÞ | |
| 3KM40 78- 🗆 🛛 B 🗆 | - | 52 | OL | 01 | 34 | - | 2.81 | ll | 38 | |
| 3KM40 27- 🗆 🛛 B 🗌 | - | 5 0 | S.T | S.T | 57 | - | S٢ | S.T | 32 | |
| 3KM40 59- 🗆 🛛 B 🗆 | - | S٢ | S | S | 53 | - | 11 | 5.5 | 52 | |
| 38M40 54- 🗆 🛛 B 🗆 | - | 2. 7 | 5 | 5 | ll | - | 5.2 | 5 | 15.5 | 084 0 |
| | dy | dy | dy | dy | (L∀ | κw | кw | κw | (↓∀ | |
| | ۸SZS | ۸09⊅ | 230 A | 200 A | | ۲005 | ↓00 | 230 A | | |
| | | | C° 0č sru: | temperat | tn9idmA | | O° 04 erui | (empera | tnəidmA | |
| | | | | л ^е | əj | | | ۹ مو | əj | - E |
| | | 6 | | voltage | current | 6 | | voltage | current | əber |
| | | eratina | vith rated op | motors w | operating | pristing | qo bəter dti | | - | puitere |
| Order No. | | e e e e e e e e e e e e e e e e e e e | wer of three | | bəteA | n a mart al | ver of three | | Rated | pə |

Order No. supplement for rated control supply voltage U_{S}

Order No. supplement for rated control supply voltage $\ensuremath{\mathsf{U}}_{\ensuremath{\mathsf{S}}}$



| | bsol-pring2 5crew-type | | | | | əqvt noitəə | ent for conn | wəlqqus .ol | Order N | |
|--------------------|---------------------------|---------------------------|-------------|-------------|-----|-------------|--------------|-------------|-------------|---------|
| 3KW40 76- 🗆 BB 🗆 5 | 400 | 300 | - | - | 382 | 312 | 750 | - | 432 | |
| 3KW40 75- 🗆 BB 🗆 5 | 300 | 750 | - | - | SIE | 520 | 200 | - | 955 | |
| 3KM40 14- 🗆 BB 🗆 S | 520 | 200 | - | - | 248 | 200 | 09L | - | 08 2 | |
| 3KM40 73- 🗆 BB 🗆 5 | 200 | 0SL | - | - | 202 | 09L | 135 | - | 530 | |
| 3KM40 29- 🗆 BB 🗆 2 | 120 | 100 | - | - | Spl | OLL | 06 | - | Z91 | |
| 3KM40 22- 🗆 BB 🗆 2 | 00 L | SZ | - | - | ZLL | 06 | SZ | - | 134 | 400 600 |
| 3KM40 76- 🗆 BB 🗆 4 | - | 300 | 120 | JZS | 385 | - | 5 20 | 132 | 432 | |
| 3KM40 12- 🗆 BB 🗆 4 | - | 5 20 | JZS | 00 L | SIE | - | 200 | OLL | 326 | |
| 3KM40 14- 🗆 BB 🗆 4 | - | 200 | 00 L | SZ | 248 | - | 09L | 06 | 08 2 | |
| 3KM40 13- 🗆 BB 🗆 4 | - | 12O | SZ | 09 | 202 | - | 132 | SZ | 730 | |
| 3KM40 29- 🗆 BB 🗆 4 | - | 00L | 50 | 40 | SÞI | - | 06 | St | Z91 | |
| 3KM40 22- 🗆 BB 🗆 4 | - | SZ | 040 | 30 | ZLL | - | SZ | 75 | 134 | 200 460 |
| | dy 222 ۸ | dy Λ 09 1 7 | dy 230 ۸ | dy ۸ 00Z | A | κM 200 Λ | ለ ተ00 ለ | ۲M 230 Л | Α | ۸ |

AC/DC 110 ... 230 V

AC/DC 24 V

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L 0

SIRIUS 3RW40 for heavy-duty starting (CLASS 20)



| | | Gunsie | ith rated op | voltage Voltage U _e | operating current le | бирена | do bətaı dt | motors wi voltage U _e | le current operating | operating voltage U _e | |
|---------------------|--------------------------------|-------------------------------|--------------|--------------------------------------|--|-----------------|-------------------|--|----------------------------|--|--|
| | | | | | | | | | | | |
| | | | רצפ 50 °C | temperat | . tnəidmA | | Ͻ° 04 91υ | tenperat | . tnəidmA | | |
| | ۸SZS | ∧09 1 | Λ02Z | ۵۹ 200۸ | ([• | ۸ 00S | 400 V | 230 A | ([• | Х | |
| | dy | dy | dy | dy | (۱∀ | км | кw | κw | ۲Ų | ٨ | |
| 3KW40 26- 🗆 🗆 B 🗆 4 | | S. 7 | 5 | 5 | LL | - | 5.2 | 5 | 15.5 | 200 480 | |
| 3KW40 27- 0 8 4 | | SL | S | S | 55 | - | | 5.5 | SZ | | |
| 3BM4032 00804 | | 3C Z0 | S.T | S.T | 67 | _ | 10 E | S.T | 25 | | |
| 36M4032-0804 | | SZ | 0L | 01 | 42 34 | _ | 2.81 | 11 | ۷۲ 38 | | |
| 3KW4047-0804 | | 40 30 | 02 ג | SL OL | 28 45 | - | 30 55 | 18:5 11 | 63 42 | | |
| 3KW4047-0804 | | 40 | 50 | 50 | Z9 | - | 28 | 52 | 77 | | |
| 3KM40 56- 0 8 2 | | 5.7 | - | - | 11 | 2°2 | 5.2 | - | 15.5 | 400 600 | |
| 3KW40 27-00805 | | SL | - | - | 53 | SL | LL | - | SS | | |
| 3KW40 36- 🗆 🗆 B 🗆 5 | | 50 | - | - | 57 | 78.5 | SL | - | 32 | | |
| 3KW4037-00802 | | SS | - | - | 54 | 52 | 2.81 | - | 38 | | |
| 3BW4037-00802 | 40 | 30 | - | - | 42 | 30 | 52 | - | SÞ | | |
| 3KW4047-00805 | 05 | 40 | - | - | 85 | Ζ Έ | 30 | - | 89 | | |
| 3KW4047-00805 | 09 | 40 | - | - | 79 | 54 | ٢٤ | - | ZL | | |
| | SIE | e terminals aded terminals | | | Order No. supplement for connection type | | | | | | |
| 8 | | | Standard t | | Order No. supplement for thermistor motor protection | | | | | | |
| L . | motor protection ²⁾ | thermistor | Integratec | | | | | | | | |
| 0 | | ٨ | VC/DC 54 | ۶ſ | y spetlov ylq | dus lottrol sup | oeter rot tra | ə <mark>wə</mark> lddns · | Order No | | |
| L | | Λ 0EZ 0 | AC/DC 11(| | | | | | | | |



| ▲ ↑ bd terminals 2 | əbeol-pninq2 | | | | | nection type | inoɔ 'o' tnər | uəlqqus .oV | Order | |
|-----------------------|--------------|------------|--------------|-------|-----|--------------|---------------|-------------|-------------|---------|
| 3KW4076-🗆 BB 🗆 5 | 300 | 550 | - | _ | 312 | 520 | 200 | - | 326 | |
| 3KW4075-🗆 BB 🗆 5 | 550 | 200 | - | _ | 248 | 200 | 09 L | - | 780 | |
| 3KM40 14- 🗆 BB 🗆 2 | 500 | JEO | - | _ | 205 | 09 L | 132 | - | 5 30 | |
| 3KM40 13- 🗆 BB 🗆 2 | 120 | 100 | - | _ | Spl | 011 | 06 | - | Z91 | |
| 3KM40 29- 🗆 BB 🗆 2 | 001 | SZ | - | - | ZLL | 06 | SZ | - | 134 | |
| 3KM4022- 🗆 BB 🗆 2 | SZ | 09 | - | - | 86 | SZ | 22 | - | 90 L | |
| 3KM40 22- 🗆 BB 🗆 2 | 09 | OS | - | — | ۲З | 22 | SP | - | 08 | 400 600 |
| 3KM40 76- 🗆 BB 🗆 4 | - | 550 | SZI | 00 L | 312 | - | 200 | 011 | 326 | |
| 3KM40 75- 🗆 BB 🗆 4 | - | 200 | 00 L | SZ | 248 | - | 09L | 06 | 082 | |
| 3KM40 14- 🗆 BB 🗆 4 | - | 120 | SZ | 09 | 202 | - | 135 | SZ | 730 | |
| 3KM40 73- 🗆 BB 🗆 4 | - | 00 L | 05 | 40 | SPI | - | 06 | SÞ | Z91 | |
| 3KM40 29- 🗆 BB 🗆 4 | - | SZ | 40 | 30 | ZLL | - | SZ | 75 | 134 | |
| 3KM40 22- 🗆 BB 🗆 4 | - | 09 | 30 | 52 | 86 | - | SS | 30 | 901 | |
| 3KM40 22- 🗆 BB 🗆 4 | - | 20 | 52 | 50 | ٤Z | - | 545 | 72 | 08 | 200 460 |
| | dy | dy | dy | dy | А | κw | KW | кw | A | ٨ |
| | ۸SZS | ۸09⊅ | 730 <i>N</i> | 200 A | | ۲005 | 400 V | Z30 A | | |
| | | | | | | | | (Tree | | |

Þ V 052 ΟΑ Screw-type terminals AC 115 V ε 9

Order No. supplement for rated control supply voltage U_{S}

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| 36W44 47- 08C 06 | 007 | 300 | - | - | 982 | 007 | 312 | 516 | - | 432 | |
|--|------------------|----------------------------|-------------|-------------|--------------------|-------------|-----------------------|-------------|----------------|--------------------|--------------------|
| 3BM44 46- 🗆 BC 🗆 6 | 300 | 092 | - | - | 312 | 322 | 052 | 200 | - | 958 | |
| 3KM44 42- 🗆 BC 🗌 9 | 520 | 200 | - | - | 280 | 312 | 200 | 09l | - | 513 | |
| 3KM44 44- 🗆 BC 🗌 9 | 200 | ΟSL | - | - | SIZ | 520 | 09L | 135 | - | 520 | |
| 3KM44 43- 🗌 BC 🗌 9 | JEO | JZS | - | - | 081 | 200 | 135 | 011 | - | 203 | |
| 3KM44 36- 🗆 BC 🗆 6 | 152 | 001 | - | - | 142 | 091 | 011 | 06 | - | Z91 | |
| 3KM44 32- 0 BC 0 | 001 | SZ | _ | - | 211 | 135 | 06 | SZ | - | 134 | 0.00 0.0+ |
| | 52 | 52 | | - | 100 | 011 | 52 | 22 | - | 213 | 400 690 |
| 38M 44 99- 🗌 BC 🗌 2 38M 44 92- 🗌 BC 🗌 2 | 1200 1100 | 056 058 | _ | _ | 9201 026 | | 006 008 | 012 089 | _ | 1014 121 | |
| 38M44 28- 08C 2 | 006 | 052 | - | - | 028 | - | 012 | 025 | - | 026 | |
| 38M44 57- BC 5 | 058 | 002 | - | - | 082 | - | 029 | 005 | - | 088 | |
| 3KM44 26- 🗆 BC 🗆 5 | 052 | 009 | - | - | 869 | - | 095 | 420 | - | 082 | |
| 3KM44 22- 🗆 BC 🗆 2 | 002 | 200 | - | - | 519 | - | 200 | 400 | - | 869 | |
| 3KM44 24- 🗆 BC 🗆 2 | 009 | 420 | - | - | LSS | - | 400 | 322 | - | 519 | |
| 3KM44 23- 0 BC 2 | 200 | 400 | - | - | 494 | - | 322 | 312 | - | LSS | |
| 3&M44 42- 🗌 BC 🗌 2 3&M44 49- 🗌 BC 🔲 2 | 400 300 | 300 520 | _ | _ | 382 312 | _ | 312 520 | 520 500 | _ | 435 326 | |
| 38M44 42 BC _ 2 | 200 220 | 3E0 500 | _ | _ | 516 | - | 200 | 002 091 | _ | 313 | |
| 38M44 44- 🗆 BC 🗆 2 | 200 | 000 J20 | _ | _ | 515 | - | 091 | 281 | _ | 052 | |
| 3KM44 43- 🗌 BC 🗌 2 | 120 | SZI | - | - | 081 | - | 132 | 011 | - | 203 | |
| 3KM44 36- 🗆 BC 🗆 S | 125 | 00L | - | - | 142 | - | 011 | 06 | - | Z91 | |
| 3KM44 32- 🗆 BC 🗆 2 | 001 | SZ | - | - | ZLL | - | 06 | SZ | - | 134 | |
| 3KM44 34- 🗆 BC 🗆 2 | 52 | SZ | - | - | 100 | - | 52 | 22 | - | 113 | 400 600 |
| 3KM44 66- 🗆 BC 🗆 4 | - | 950 | 420 | 320 | 9201 | - | - | 012 | 400 | 1214 | |
| 3&M44 | - | 058 052 | ₹00 320 | 320 300 | 026 058 | - | - | 029 200 | 322 312 | 9201 026 | |
| 3KM44 22- 08C 4 | _ | 002 | 300 | 200 220 | 082 | _ | _ | 005 | 516 | 020 | |
| 38Mtt 29- 08C 0t | - | 009 | 092 | 200 | 869 | - | _ | 420 | 520 | 082 | |
| 3KM44 22- 🗌 BC 🗌 4 | - | 005 | 520 | 200 | 519 | - | - | 400 | 200 | 869 | |
| 3KM44 24- 🗆 BC 🗌 4 | - | 420 | 200 | 120 | lss | - | - | 322 | 200 | SL9 | |
| 3KW44 53- 🗆 BC 🗆 4 | - | 400 | 200 | 120 | 494 | - | - | 312 | 091 | lss | |
| 3KM44 42- 🗆 BC 🗆 4 | _ | 300 | 05L | 172 | 382 | _ | _ | 520 | 135 | 435 | |
| 3&M 44 | _ | 520 500 | 152 100 | ۵0۱ 22 | 312 580 | _ | _ | 00Z 09L | 011 06 | 329 313 | |
| 38M44 44- 08C 04 | _ | 120 | SZ | 09 | 515 | - | _ | 132 | SZ | 092 | |
| 38Mtt t3- 08C t | - | SZL | 09 | 05 | 081 | - | - | 011 | 52 | 203 | |
| 3KM44 39- 🗆 BC 🗆 4 | - | 100 | 20 | 40 | 142 | - | - | 06 | 42 | ۲9۱ | |
| 3KM44 32- 🗆 BC 🗌 4 | - | SZ | 40 | 30 | ZLL | - | - | S۲ | 75 | 134 | |
| 3KM44 34- 🗌 BC 🗌 4 | - | 52 | 30 | 30 | 001 | - | - | 22 | 30 | 511 | 200 460 |
| | st bebeol-pring2 | | | | | | | | | | |
| L slenin | Screw-type tern | | | | | advt | noitoenno | ent for co | məlaqus | Order No. | |
| 3KM+++ 52- □ BC □ 9 | ۶L | 09 | - | - | 78 | 06 | 22 | 54 | - | 86 | |
| 3 <i>K</i> M 44 56- □ BC □ 6 | 05 | 20 | - | - | 89 | SZ | 545 | ٢٤ | - | LL | |
| 3KM44 22- 🗆 BC 🗌 9 | 40 | 30 | - | - | ۱S | SS | 75 | 30 | - | ۲S | |
| 3KM44 54- 🗆 BC 🗆 6 | 30 | 52 | - | - | 42 | 57 | 30 | 22 | - | 74 | |
| | 52 | 50 | _ | _ | 35 | 32 | 52 | 18.5 | _ | 98 | 060 00+ |
| 3&M 44 55- 🗌 BC 🗌 9 3&M 44 52- 🗌 BC 🗌 2 | 50 52 | SL 09 | - | - | 97 78 | 30 | ۶.8۲ ۲۵ | 12 42 | - | 56 56 | 069 004 |
| 38M44 50- 08C 22 | 05 | 09 09 | _ | _ | 89 | _ | 57 | 4E 37 | _ | 20 22 | |
| 38Mtt S2- BC 2 | 07 | 30 | - | - | lS | - | 28 | 08 | - | 25 | |
| 3KM44 54- 🗌 BC 🗌 2 | 30 | SZ | - | - | 42 | - | 30 | 22 | - | 747 | |
| 3KM44 23- 🗆 BC 🗆 2 | 52 | 50 | - | - | 32 | - | 22 | 2.81 | - | 98 | |
| | 50 | 5L | - | - | 97 | - | 2.8r | SI CT | - | 56 | 400 600 |
| 3&M 44 52- 🗌 BC 🗌 4 3&M 44 59- 🗌 BC 🗌 4 | - | 09 05 | 52 50 | 52 07 | 78 89 | | _ | 42 32 | ۲۲ ۲۵:۶۱ | 86 22 | |
| 38M44 32- 08C 04 | _ | 30 | JU SL | 51 SI | 89 19 | _ | _ | 22 02 | I S L | 22 25 | |
| 38Mtt 5t- BC 4 | _ | SZ | SI | 01 | 45 | - | - | 22 | 11 | 23 27 | |
| 3KM44 23- 🗌 BC 🗌 4 | - | 5 0 | ٥L | ٥L | 32 | - | - | 2.81 | 2.7 | 98 | |
| 3KM44 22- 🗌 BC 🗌 4 | - | 12 | ۲.5 | S.T | 97 | - | - | 3 L | 5.5 | 57 | 200 460 |
| | dy ۲۵ ۸ ۲ | μb 1700 Λ | dy ۲30 ۸ | dy ۸ 00Z | Α | Mא 069 ለ | κM 200 Λ | κM 400 Λ | ۲۸ KM 730 A | A | ۸ |
| | // 1 | Activ | | | ət tnəidmA | 1005 | | | | ət tnəidmA | |
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| | | | | voltage | current | - | u nu a da | | voltage | current | epetiov |
| Order No. | | əzeriq-əəri A operating | | | Rated operating | | ifree-pha bree-pha | | | bəteA operating | Rated operating |
| | | | | - Postod | hoted. | | - de cond | , je zemo | | hoted. | Poted |

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* 38M44 66- BC 6

3KM44 65- BC 6

38M44 28- BC Q 38M44 22- BC Q

3BW44 56- BC 6

3BW44 55- 8C 9

3KM44 24- BC 9

3BW44 53- BC 6

Order No. supplement for connection type OLL

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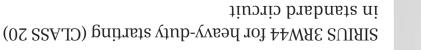
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Sl9

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Rated Rated power of three-phase operating motors with rated operating current voltage le Ue



Order No.





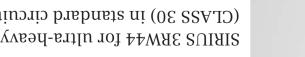
| Rated power of the relation of | Rated | |
|--|-------|--|
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| age ors with rated operating age | Rated operating current le | Rated voltage V _e |
|--|-------------------------------------|------------------------------------|
| BAR D | | |

| 38M44 34- 🗌 BC 🗌 4 | - | 09 | 52 | 56 | 28 | - | - | 57 | 22 | 26 | 097 002 |
|--------------------------|-------------------------------------|------------|-------------|-------------|-------|-------------|-------------|-------------------------|-------------|-----------|---------|
| ▲ ▲ Γ sle ε slenin | nimrət 9qγt-wərs Screw-type tern | | | | | ţλbe | noitoann | oo rof for | əwəlqqus | Order No. | |
| 3KW44 27- 🗆 BC 🗆 6 | 20 | 09 | - | - | 89 | SZ | 545 | Z٤ | - | LL | |
| 3KM44 25- 🗆 BC 🗆 6 | 40 | 30 | - | - | ۱S | 55 | Z٤ | 30 | - | ٢S | |
| 3KM44 54- 🗆 BC 🗆 9 | 30 | 52 | - | - | 45 | 42 | 30 | 22 | - | 747 | |
| 3KM44 23- 🗆 BC 🗆 9 | 52 | 50 | - | - | 32 | ٤٢ | 22 | 2.81 | - | 98 | |
| 3KM44 22- 🗆 BC 🗆 6 | 50 | S۱ | - | - | 97 | 30 | 2.81 | S۱ | - | 67 | 400 690 |
| 3KW44 27- 🗆 BC 🗆 5 | 05 | 20 | - | - | 89 | - | 42 | 75 | - | LL | |
| 3KM44 52- 🗆 BC 🗆 2 | 40 | 30 | - | - | ۱S | - | Ζ٤ | 30 | - | ٢S | |
| 3KM44 54- 🗆 BC 🗆 2 | 30 | 52 | - | - | 42 | - | 30 | 22 | - | ۲Þ | |
| 3KM44 53- 🗆 BC 🗆 2 | 52 | 50 | - | - | 32 | - | 22 | 2.81 | - | 98 | |
| 3KM44 22- 🗆 BC 🗆 2 | 50 | SL | - | - | 97 | - | 2.81 | SL | - | 67 | 400 600 |
| 3KM44 27- 🗆 BC 🗌 4 | - | 20 | 50 | 50 | 89 | - | - | 22 | 2.81 | LL | |
| 3KM44 52- 🗆 BC 🗆 4 | - | 30 | S۱ | S۱ | ۱S | - | - | 30 | S۱ | ۲S | |
| 3KM44 54- 🗆 BC 🗆 4 | - | 52 | S۱ | ٥L | 42 | - | - | 22 | LL | ۲Þ | |
| 3KM44 53- 🗌 BC 🗌 4 | - | 50 | ٥L | ٥L | 32 | - | - | 2.81 | S.T | 98 | |
| 3KM44 55- 🗌 BC 🗌 4 | - | S۱ | Z.5 | Z.S | 97 | - | - | S۱ | 5.5 | 67 | 200 460 |
| | dy ۲۵۵ ۸ | μb √097 | dy 230 ۸ | dy 200 ۸ | A | ۲M 690 ۸ | ዮM 200 ለ | κм 1 00 ∧ | ዮM 530 ለ | A | ۸ |
| | | ⊃。09 | erature : | dmət tra | əidmA | | C | ° 04 910: | tempera | tn9idmA | |

| - | Screw-type termina Screw-type termina AC 115 V AC 230 V | | | | s | od subbly voltage U | - | | • | | |
|--|--|-----------|------------|------------|------------|---------------------|-----------|-------------|------------|-------------|-----------------------------------|
| Z sleni | im197 bəb6ol-pring2 | | | | | and | noitzenne | o tot toer | uəlqqus .c | Order No | |
| 3KM44 65- 🗆 BC 🗆 6 | 006 | 05Z | - | - | 820 | 000 L | OLL | 095 | - | 026 | |
| 3 <i>K</i> M44 65- 🗌 BC 🗌 6 | 058 | 00Z | - | - | 082 | 006 | 029 | 200 | - | 088 | |
| 3KM44 65- 🗆 BC 🗌 6 | 0SZ | 009 | - | - | 869 | 008 | 095 | 420 | - | 08Z | |
| 3KM44 57- 🗆 BC 🗆 6 | 002 | 200 | - | - | SI9 | 012 | 200 | 400 | - | 269 | |
| 3KM44 22- 🗆 BC 🗌 9 | 009 | 420 | - | - | LSS | 029 | 400 | 322 | - | Sl9 | |
| 3KM44 23- 🗆 BC 🗌 9 | 200 | 400 | - | - | 494 | 095 | 322 | 312 | - | lss | |
| 3KM44 23- 🗆 BC 🗌 9 | 400 | 300 | - | - | 385 | 400 | 312 | 250 | - | 432 | |
| 3KW44 47- 🗆 BC 🗆 6 | 300 | 220 | - | - | 312 | 322 | 220 | 200 | - | 326 | |
| 3KM44 47- 🗆 BC 🗆 6 | 520 | 200 | - | - | 280 | 312 | 200 | 091 | - | 313 | |
| 3KM44 46- 🗆 BC 🗌 6 | 500 | 05L | _ | _ | 515 | 520 | 09 L | 132 | - | 520 | |
| 3KM44 42- 🗆 BC 🗆 9 | 120 | 172 | _ | _ | 081 | 200 | 132 | 011 | - | 203 | |
| 3&M44 43- 🗆 BC 🗌 9 3&M44 39- 🗆 BC 🗍 9 | 57L 00L | 100 52 | _ | _ | 142 112 | 190 132 | 011 06 | 06 | - | 195 134 | |
| 38M44 32- 08C 0 | SZ | SZ | _ | _ | 001 | 011 | SZ | 52 22 | _ | 213V 113 | |
| 3KM44 34- 0 BC 0 | SZ | 09 | _ | _ | 78 | 06 | 52 | St | _ | 211 | 069 00 1 ⁄ |
| 38M44 92- 080 2 | 006 | 052 | - | - | 058 | | 012 | 095 | - | 026 | 009 000 |
| 38M44 65- 0 BC 2 | 058 | 002 | _ | _ | 082 | - | 029 | 200 | _ | 088 | |
| 38M44 65- 0 BC 2 | 052 | 009 | - | _ | 269 | - | 095 | 057 | - | 082 | |
| 3KM44 57- 🗆 BC 🗆 5 | 002 | 200 | - | - | 519 | - | 200 | 400 | - | 869 | |
| 3BW44 54- 🗆 BC 🗌 5 | 009 | 420 | - | - | LSS | - | 400 | 322 | - | SI9 | |
| 3KM44 23- 🗆 BC 🗌 2 | 200 | 400 | - | - | 494 | - | 322 | SIE | - | lss | |
| 3KW44 53- 🗆 BC 🗆 5 | 400 | 300 | - | - | 385 | - | 312 | 750 | - | 432 | |
| 3KM44 47- 🗆 BC 🗆 5 | 300 | 220 | - | - | 312 | - | 220 | 200 | - | 326 | |
| 3KW44 47- 🗆 BC 🗆 5 | 520 | 200 | - | - | 280 | - | 200 | 09 L | - | 513 | |
| 3KW44 46- 🗆 BC 🗆 5 | 200 | 120 | - | - | 212 | - | 091 | 132 | - | 250 | |
| 3KM44 42- 🗆 BC 🗆 2 | 120 | JZS | - | - | 180 | - | 132 | 011 | - | 203 | |
| 3KM44 43- 🗆 BC 🗆 2 | 152 | 001 | - | - | 142 | - | 011 | 06 | - | 29L | |
| 3KM44 39- 🗆 BC 🗆 2 | 001 | 5Z 5Z | _ | - | 211 001 | - | 06 52 | 5Z 55 | _ | 134 113 | |
| 3&M 44 32- 🗌 BC 🗌 2 3&M 44 34- 🗌 BC 🗌 2 | SZ SZ | 92 09 | _ | _ | 28 | _ | 52 | 22 57 | _ | ۲۱ع 63 | 400 600 |
| | - | 09 | | | 058 | _ | | 90 095 | | | 009 001 |
| 3&M44 | _ | 092 | 320 300 | 300 520 | 098 082 | _ | _ | 095 | 312 520 | 026 088 | |
| 38M44 65- 08C 4 | _ | 002 | 002 | 320 500 | 280 269 | _ | _ | 003 | 092 | 088 | |
| 38M44 22- 08C 04 | - | 005 | 092 092 | 200 | 519 | - | _ | 007 | 520 | £69 | |
| 3KM44 22- 0 BC 0 4 | _ | 057 | 500 | 051 | 1921 | _ | _ | 555 | 00Z | 519 | |
| 38M44 23- 0 BC 0 4 | _ | 007 | 002 | 051 | 464 | _ | - | 315 | 091 | LSS | |
| 38M44 23- 0 BC 0 4 | - | 300 | 051 | SZL | 385 | - | _ | 052 | 751 | 432 | |
| 3KM44 47- 🗆 BC 🗆 4 | - | 052 | 152 | 001 | 312 | - | - | 200 | 011 | 955 | |
| 3KM44 47- 🗆 BC 🗌 4 | - | 00Z | 00L | SZ | 280 | - | - | 09 L | 06 | 313 | |
| 3KW44 46- 🗆 BC 🗆 4 | - | 05L | SZ | 09 | SIZ | - | - | 132 | SZ | 520 | |
| 3KM44 42- 🗌 BC 🗌 4 | - | 152 | 09 | 20 | 180 | - | - | 011 | 22 | 203 | |
| 3KM44 43- 🗌 BC 🗌 4 | - | 00L | 05 | 40 | Stl | - | - | 06 | 545 | Z91 | |
| 3KM44 36- 🗆 BC 🗌 4 | - | SZ | 04 | 30 | ZLL | - | - | S۷ | 75 | 134 | |
| 3KM44 32- 🗌 BC 🗌 4 | - | SZ | 30 | 30 | 001 | - | - | 55 | 30 | 511 | |
| 3KM44 34- 🗆 BC 🗌 4 | - | 09 | 52 | 52 | 28 | - | - | 545 | 22 | 63 | 200 460 |
| | im195 babaol-pning2 Spring-loaded termi | | | | | ayye | uonoecnou | ient tor co | uəıddns .c | Order NG | |

8002 ƏA znəməiZ 🗇



SIRIUS 3RW44 for ultra-heavy-duty starting

| | | | | | | ICI bus Al apen | no znoitibn | | d hns 29to | n noiterupitnop | adt avrazdo azgal9 |
|--|------------------------------------|--------------------|-------------|---|------------------------|-------------------------------|---------------|------------------|-------------|-------------------------------------|---|
| 4 | V 052 2A | | | | | _s U əpatlov ylqqua | e lontrol b | t for rate | bblemen | Order No. su | |
| | Screw-type tern Screw-type tern | | | | | be | vt noitoer | t for conr | uəməlqq | Order No. su | |
| 3 <i>K</i> M 44 | 006 058 | 05Z 00Z | | | 058 082 | - 006 | - 029 | – 200 | - | - 088 | |
| 3KM44 65- 🗌 BC 🗌 6 | 052 | 009 | - | - | 869 | 008 | 095 | 420 | - | 08Z | |
| 3KM44 65- 08C 0 3KM44 58- 08C 0 | 00Z 009 | 200 420 | - | - | 519 195 | 210 930 | 200 400 | 400 322 | - | 669 12 | |
| 38M44 22- 🗆 BC 🗆 9 | 200 | 400 | - | - | 494 | 095 | 322 | 312 | _ | 122 | |
| 3KM44 23- 0 BC 0 | 400 | 300 | - | _ | 382 | 400 | 312 | 520 | - | 432 | |
| 3KM44 23- 🗌 BC 🗌 9 3KM44 23- 🗌 BC 🗌 9 | 300 520 | 520 500 | _ | _ | 312 580 | 322 312 | 220 200 | 00Z 091 | _ | 329 313 | |
| 3KW44 47- 🗌 BC 🗌 6 | 500 | JEO | - | - | SIS | 550 | 09L | 751 | - | 750 | |
| 3KM44 49- 🗆 BC 🗌 9 3KM44 43- 🗌 BC 🗌 9 | 120 571 | 521 100 | _ | _ | 142 142 | 200 1 00 | 751 011 | 011 06 | _ | 203 291 | |
| 38M44 43- 🗆 BC 🗌 9 | 001 | SZ | - | - | 211 | 132 | 06 | SZ | - | 134 | |
| 3KM44 43- 🗆 BC 🗌 9 | SZ | SZ | - | - | 001 | 011 | 52 | 55 | - | 113 | |
| 3&M44 32- 🗆 BC 🗌 9 3&M44 34- 🗆 BC 🗌 9 | 52 20 | 09 05 | _ | _ | 78 89 | 06 SZ | 22 57 | 42 31 | _ | 86 22 | 069 00 1 |
| 38M44 66- BC 2 | 006 | 0SZ | - | - | 820 | - | - | - | - | - | |
| 3KM44 92- 🗆 BC 🗆 2 3KM44 92- 🗆 BC 🗆 2 | 058 052 | 00Z 009 | _ | _ | 08Z 869 | - | 029 095 | 200 420 | _ | 088 082 | |
| 3 <i>K</i> M 44 65- 🗌 BC 🗌 5 | 002 | 200 | - | - | S19 | - | 200 | 400 | - | 869 | |
| 3&M 44 28- 🗆 BC 🗆 2 3&M 44 22- 🗆 BC 🗆 2 | 009 005 | 420 400 | - | - | 551 494 | - | 400 322 | 322 312 | - | 519 155 | |
| 36M14 22- 0 8C 0 2 | 400 | 007 300 | _ | _ | 382 | - | 312 | 516 | - | 432 | |
| 3KM44 23- 🗆 BC 🗆 2 | 300 | 520 | - | - | 312 | - | 520 | 200 | - | 958 | |
| 3KM44 23- 🗌 BC 🗌 2 3KM44 42- 🗌 BC 🗌 2 | 520 500 | 200 J20 | - | - | 580 512 | - | 00Z | 190 135 | - | 313 520 | |
| 38M44 46- 🗆 BC 🗆 S | 120 | SZI | - | - | 081 | - | 135 | 011 | - | 503 | |
| 3KM44 43- 🗆 BC 🗆 2 3KM44 43- 🗆 BC 🗆 2 | 152 100 | ۱00 22 | _ | - | 571 211 | - | 011 06 | 06 52 | _ | 29L ⊅EL | |
| 38M44 43- 08C 2 | SZ | SZ | - | - | 001 | - | SZ | 52 | - | 134 811 | |
| 3KM44 32- 🗆 BC 🗆 2 | 52 | 09 | - | - | 28 | - | 55 | 42 | - | 86 | |
| 3KM44 34- 🗌 BC 🗌 2 3KM44 99- 🗌 BC 🗌 4 | 20 _ | 20 520 | – 320 | – 300 | 89 058 | - | 42 | ٤ک 290 | – 312 | ۲۲ 076 | 400 600 |
| 38M44 65- 08C 4 | - | 002 | 300 | 092 | 082 | - | - | 200 | 572 | 088 | |
| | | 009 005 | 520 520 | 200 200 | 669 12 | - | - | 420 400 | 520 500 | 08Z 869 | |
| 3KM44 65- 🗆 BC 🗆 4 3KM44 58- 🗆 BC 🗆 4 | - | 055 | 520 | 002 | 1921 | - | - | 322 | 200 | 519 | |
| 3KM44 22- 🗆 BC 🗆 4 | - | 400 | 200 | 051 | 494 | - | - | 312 | 09L | lss | |
| 3KM44 23- 🗌 BC 🗌 4 3KM44 23- 🗌 BC 🗌 4 | _ | 300 520 | 120 172 | 172 100 | 382 312 | | _ | 520 500 | 721 011 | 757 326 | |
| 3KM44 23- 🗌 BC 🗌 4 | - | 200 | 00 L | SZ | 780 | - | - | 09٤ | 06 | 813 | |
| 3KM44 42- 🗌 BC 🗌 4 3KM44 49- 🗌 BC 🗌 4 | - | 120 132 | ۲2 09 | 09 05 | 512 180 | - | _ | 135 110 | 52 22 | 520 503 | |
| 38M44 43- 🗌 BC 🗌 4 | - | 100 | 09 | 07 | 571 | - | - | 06 | 542 | Z91 | |
| 38M44 43- 🗆 BC 🗆 4 | - | SZ | 07 | 30 | 211 | - | - | 52 | 25 | 134 | |
| 3&M44 43- 🗌 BC 🗌 4 3&M44 32- 🗌 BC 🗌 4 | - | SZ 09 | 30 52 | 30 52 | ۱00 82 | - | - | 22 42 | 30 22 | اع 63 | |
| 38M44 34- 🗌 BC 🗌 4 | - | 20 | 50 | 50 | 89 | - | - | Ζ٤ | 2.81 | LL | 500 460 |
| | Screw-type teri Spring-loaded t | | | | | λbe | t noitoen | nt for cor | əwəlddu | Order No. s | |
| 38M 44 52- 🗆 BC 🗆 9 | 40 | 30 | _ | - | ۱S | 22 | ٢٤ | 30 | _ | ٢S | |
| 3KM44 25- 🗌 BC 🗌 6 | 30 | 52 | - | - | 42 | 42 | 30 | 22 | - | 747 | |
| 3KM44 54- 🗆 BC 🗌 9 3KM44 55- 🗆 BC 🗌 9 | 52 50 | 50 גר | _ | _ | 35 50 | ۲٤ ۵۵ | ۲۲ ۱8:5 | ۶.8۱ ۱۶ | _ | 9E 6Z | 069 004 |
| 38M44 32- BC 2 | 50 40 | 30 30 | - | - | 92 IS | - | 30L 22 | 30 | - | 20 25 | 005 000 |
| 3 <i>K</i> M 44 52- 🗌 BC 🗌 2 | 30 | 52 | - | - | 42 | - | 30 | 72 | - | 747 | |
| 3KM44 54- 🗌 BC 🗌 2 3KM44 55- 🗌 BC 🗌 2 | 52 50 | 50 גר | _ | _ | 25 97 | | 22 23 | ۶.81 ا5 | _ | 9E 6Z | 400 ··· 00 1 |
| 38M44 22- 🗌 BC 🗌 4 | - | 30 | ۶L | S۱ | ١S | - | - | 30 | S۱ | 25 | 005 007 |
| 3KM44 22- 🗌 BC 🗌 4 | - | 52 | S۱ | 01 | 45 | - | - | 52 | | 747 | |
| 3&M44 54- 🗌 BC 🗌 4 3&M44 55- 🗌 BC 🗌 4 | _ | 50 ג | ۵۱ ۲.5 | 0L S'Z | 25 50 | _ | _ | 18.5 18 | 2.7 2.5 | 9E 6Z | 500 4 60 |
| | dy ۲۵ ۸ ۲۵ | μb 190 Λ | dy 230 ۸ | dy 200 ۸ | А | ۲M 690 ۸ | ۲M 200 ۸ | кw | κм 530 Λ | Α | ٨ |
| | | | | | ət tnəidmA | 7,009 | | | | ət tnəidmA | |
| | | | | 2 | - | | | | 2 | 2 | |
| Order No. | Бu əs | aree-pha berati | with rate | Rated po motors y Voltage U _e | Rated current le | | hree-pha b | with rate | | Rated operating current le | Rated operating Veltage U _e |
| ji | ard circu | | s ui | (0E S | (CLAS | E | | | | | |

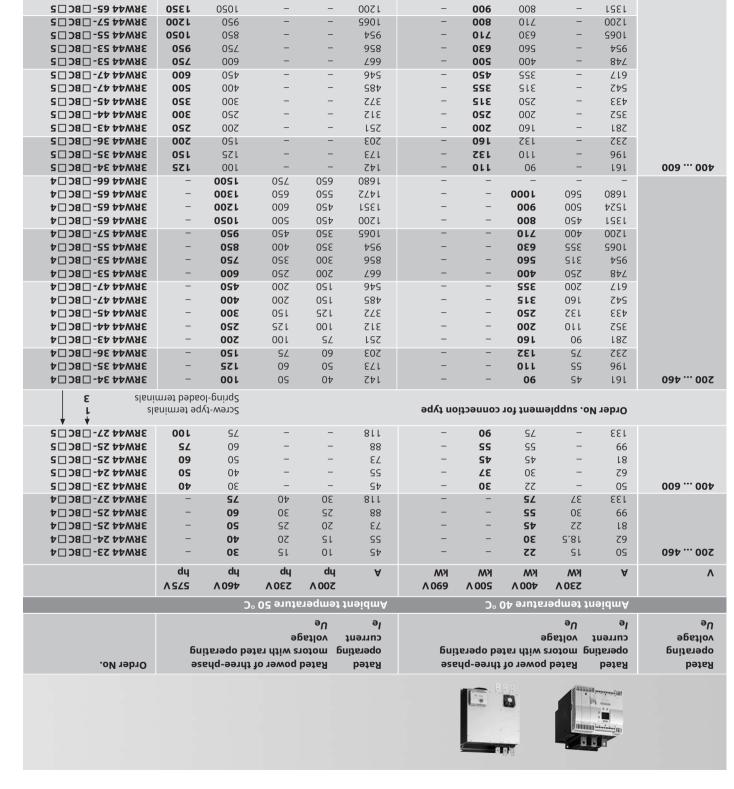
SIRIUS 3RW44 for normal starting (CLASS 10) in inside-delta circuit

| 4 | | AC 230 V | | | C C C C | C 11 | | | | | |
|--|---|---|--|---|---|---|--|--|---|--|---|
| 3 | | ACIJSV | | | »U epetio | trol supply v | noo bəter | nof for | o. suaal | Order N | |
| | enimıət əd | | | | | ad (a u | | | | | |
| Z sleu | imıət bəbe | Spring-los | | | | auvt no | pitoennoo | not for | algaus .o | Order N | |
| | 0017 | 00 () | | | 1.001 | | 0001 | 0071 | | 6017 | |
| 3BW44 66- BC BC 3 | 2100 | 0021 | - | - | 1864 | - | 1200 | 1200 | - | 2103 | |
| 38M44 65- 8C 2 | 0061 | 1200 | - | - | 0891 | - | 1320 | 1100 | - | 1864 | |
| 3KM44 28- 🗆 BC 🗆 2 | 1650 | 1300 | - | - | 1472 | - | 1200 | 1000 | - | 0891 | |
| 38M44 57- BC 5 | 1200 | 1200 | _ | - | 1321 | - | 1000 | 006 | - | 1524 | |
| 38M44 26- 🗆 BC 🗆 S | 1320 | 1020 | - | - | 1200 | - | 006 | 800 | - | 1321 | |
| 38M44 22- 08C 2 | 1200 | 026 | _ | - | 590L | - | 008 | 012 | - | 1200 | |
| 38M44 24- 0 BC 2 | 1020 | 820 | _ | - | 624 | - | 012 | 089 | - | 590L | |
| 3KM44 23- 🗆 BC 🗆 2 | 026 | 052 | - | - | 958 | _ | 029 | 095 | _ | 756 | |
| 3KM44 47- 🗆 BC 🗆 5 | 052 | 009 | - | - | 299 | - | 200 | 400 | - | 748 | |
| 38M44 46- 🗆 BC 🗆 S | 009 | 420 | - | - | 946 | - | 420 | 322 | - | 219 | |
| 38M44 42- 🗆 BC 🗆 2 | 200 | 400 | _ | _ | 482 | - | 322 | 312 | _ | 242 | |
| 38M44 44- BC 2 | 320 | 300 | - | - | 372 | - | 312 | 520 | - | 433 | |
| 38M44 43- 🗆 BC 🗆 2 | 300 | 520 | - | - | 312 | - | 520 | 500 | - | 325 | |
| 3KM44 36- BC BC BC | 220 | 200 | - | - | 192 | - | 200 | 09L | - | 18Z | |
| 3KM44 32- BC 2 | 200 | 05L | _ | _ | 503 | _ | 091 | 132 | _ | 535 | 000 00+ |
| 3KW44 34- BC BC 2 | 120 | 172 | - | - | 173 | - | 132 | 011 | - | 96L | 009 004 |
| | _ | 0021 | 820 | 002 | 1864 | | _ | 1200 | 012 | 5103 | |
| 38M44 65- BC 4 | - | 1200 | 052 | 059 | 089L | - | - | 0011 | 089 | 1864 | |
| 3KW44 58- BC 4 | _ | 1300 | 09 | 220 | 1472 | | | 0001 | 095 | 0891 | |
| 36W44 57- BC 4 | | 1200 | 009 | 420 | 1321 | | | 006 | 200 | 1524 | |
| 38M44 26- 8C 4 | _ | 1020 | 200 | 420 | 1200 | _ | _ | 800 | 420 | 1321 | |
| 38M44 22- 0 8C 0 4 | - | 026 050 | 420 | 320 | 590L | - | _ | 012 | 400 | 1200 | |
| 38M44 24- 🗆 BC 🗆 4 | - | 820 | 400 | 320 | 624 | - | - | 029 | 322 | 590L | |
| 38M44 23- 0 BC 0 4 | - | 750 | 320 | 300 | 958 | _ | _ | 095 | 312 | 56t | |
| 38M44 47- BC 4 | - | 009 | 520 | 200 | 299 | - | | 400 | 520 | 248 | |
| 38M44 46- 8C 4 | - | 420 | 200 | 120 | 946 | - | - | 322 | 200 | 219 716 | |
| 38M44 42- 🗆 BC 🗆 4 | - | 400 | 200 | 120 | 482 | - | - | 312 | 09L | 242 | |
| 38M44 44- 🗆 BC 🗆 4 | - | 300 | 120 051 | 172 | 372 | - | - | 520 | 135 | 433 | |
| 38M44 43- 🗆 BC 🗆 4 | - | 520 | 175 | 001 | 312 | _ | _ | 200 | 011 | 325 | |
| 3KM44 36- BC 4 | - | 200 ג00 | 100 22 | ۶∠ 09 | 52J 503 | - | _ | 190 135 | 06 52 | 281 232 | |
| 3KM44 32- 🗆 BC 🗆 4 | | 051 | | | | | | | 5/ | (> (| |
| | _ | | | | | _ | _ | | | | 00+ 007 |
| 3 6 744 34- 🗆 BC 🗆 4 | - | SZL | 09 | 20 | ٤٢٢ | - | - | 011 | 55 | 961 | 094 002 |
| 3 BW4434-0BC04 9 2 3 | ded termin – | 1 22 spring-loa | | | | - | - | 011 | 55 | 961 | 500 460 |
| 3 BW4434-0BC04 9 2 3 | lenimiət əc ded termin – | 1 22 spring-loa | | | | – u £λbe | oitoenno. – | | 55 | 961 | 097 902 |
| 38M44 34- □ BC □ 4 9 2 3 2 4 4 4 | lenimiət əc | J 25 Screw-typ | | | ٤٢٦ | – u £λbe | | 110 nent for c | 22 or andhas | 196 Order No | 500 1 60 |
| 38M44 34- 8C 4 9 2 3 2 4 38M44 52- 8C 2 | 125 125 | J 22 2crew-typ 100 | | | 145 | – u ¢λbe – | 011 | 90 nentforc 110 | 55 | 161 Order No | 097 902 |
| 38M44 34- 8C 4 9 2 3 2 4 38M44 52- 8C 2 38M44 52- 8C 2 | 100 132 100 | 1 25 2016-109 100 22 | | | 173 142 118 | - u t⁄ype - - | 011 06 | 110 110 90 72 | 22 or andhas | 196 Order No 181 133 | 097 002 |
| 3888444 34- 80 4 9 2 3 2 4 388844 52- 80 2 388844 52- 80 2 388844 52- 80 2 | 75 100 125 125 | J 32 2crew-typ 75 75 75 75 75 75 75 75 75 75 75 75 75 | | | 173 142 118 88 | - u t⁄\b6 - - - | 011 06 22 | 110 ment for c 25 52 | 22 or andhas | 196 Order No 133 133 99 | 097 002 |
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| 3888474 34- 80 4 9 2 3 2 4 3888474 52- 80 2 3888474 52- 80 2 3888474 52- 80 2 388847 52- 80 2 388847 53- 80 2 388847 53- 80 2 | 75 100 125 125 | J32 2cteм-f∆b 2ctem-f∆b 90 20 40 40 | | | 173 142 118 88 73 73 55 | - - - | 011 06 22 | 110 100 30 47 30 47 30 30 | 22 or andhas | 196 Order NG 133 81 81 65 | |
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SIRIUS 3RW44 for heavy-duty starting (CLASS 30) in inside-delta circuit



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SIRIUS 3RW44 for ultra-heavy-duty starting (CLASS 30) in inside-delta circuit

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| 3KM44 23- 🗆 BC 🗆 2 | 200 | 400 | - | - | 482 | - | 322 | 312 | - | 242 | |
| 3KM44 47- 🗆 BC 🗆 5 | 320 | 300 | - | - | 020 | - | 315 | 520 | - | 433 | |
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Configuration Notes Selection aid for soft starters

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| Dump Pump | | net llem2 | | | |
| Pump Pump • </td <td></td> <td>Screw compressor</td> <td></td> <td></td> <td></td> | | Screw compressor | | | |
| Dump | | Piston compressor | | • | |
| Dump Pump Pump Pump with special pump stop (against water hammer) • • Press • • • Press • • • • Press • • • • • Press • • • • • • Press • • • • • • • • Press • <t< td=""><td></td><td>Escalator</td><td></td><td>•</td><td>•</td></t<> | | Escalator | | • | • |
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| Pump Pump Pump Pump with special pump stop (against water hammer) Pump Pump Pump Pu | ÔZ | Press | Õ | | |
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| dun _d | SS 1 | dmuq teat | Ŏ | Ŏ | Ó |
| | 0) | Pump with special pump stop (against water hammer) | | | |
| Application 3RW40 3RW44 | rting | | • | • | • |
| | | noitsilqqA | 38M30 | 38W40 | 38W44 |

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recommended soft starter

Special functions, e.g. measured values, display language, etc.

Soft Starter ES parameterization software

○ possible soft starter

Boundary conditions

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3RW30: Maximum start-up time 3 sec., with 300 % starting current, 20 starts/hour 3RW40/44: Maximum start-up time 10 sec., current limiting 300 %, 5 starts/hour

CLASS 20 (heavy-duty starting): 3RW402., 3RW403., 3RW404.:

Aaximum start-up time 20 sec., current limiting set to 300 %, maximum 5 starts/hour 3RW405., 3RW407., 3RW407.

Maximum start-up time 40 sec., current limiting set to 350 %, maximum 1 start/hour

:(pritrate tub-vysad-exting) 05 22AJD

nuon/start-up time 60 sec., current limiting set to 350 %, maximum 1 start/hour

General boundary conditions:

NN period 30 % Stand-alone assembly Installation altitude: maximum 1000 m / 3280 ft kW: 40 °C / 104 °F hp: 50 °C / 122 °F

The stated motor ratings are only approximate values. The soft starter's dimensioning should always exceed the motor current (rated operating current). With deviating conditions, a larger device may have to be selected.

Motor rating data are based on DIN 42973 (kW) and NEC 96/UL508 (hp).

Further details and information (e.g. on accessories and spare parts) can be found in the catalogs LV1 and LV1 T "Low-Voltage Controls and Distribution" and in the current online editions of these catalogs on the Internet at:

spoleteolegetlovwol/moo.snemeis.www

General and further information on SIRIUS soft starters is available on the Internet at: www.siemens.com/softstarter

For optimum dimensioning (in case of deviations from the described boundary conditions), we recommend application of the selection and simulation program "Win-Soft Startet".

(Order No.: E20001-D1020-P302-V2-7400)

moo.znemeiz@eonstzizze-leoindoet

Win-Soft Starter can also be ordered or downloaded via the following link: www.siemens.com/lowvoltage/demosoftware Alternatively, contact our **Technical Assistance: +49 911 895 5900** or write an e-mail to or write an e-mail to

vww.siemens.com/softstarter

Siemens AG Industry Sector P.O. Box 48 48 90327 NUREMBERG GERMANY GERMANY

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