



SIRIUS Innovations for Special Requirements

Solutions for frequent switching or soft starting

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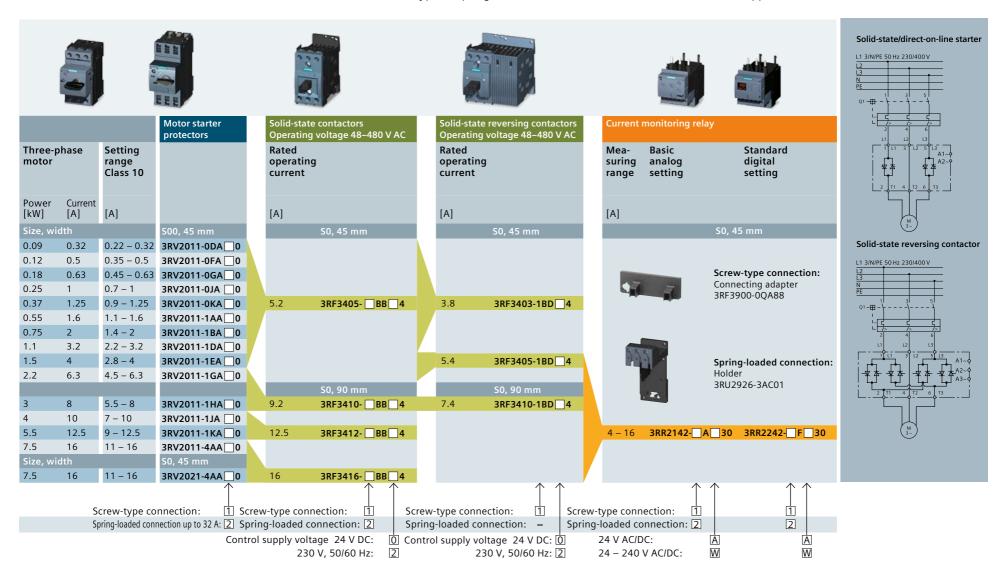
The innovative SIRIUS modular system offers the suitable switching technology for every application: The new 3RF34 solid-state switching devices are employed wherever motors with very high switching frequencies require wear-free and silent switching. The 3RW soft starters guarantee a current-and torque-limiting start-up process for the protection of motor, mechanics and mains. As a highlight, the current monitoring relay guarantees easy application monitoring even beyond the motor.

Starter combination: Motor starter protectors and solid-state switching devices with optional current monitoring relay

Solid-state contactors for the switching of motors are designed for the frequent on- and off-switching of three-phase drives in one direction of rotation up to 7.5 kW, as well as for reversing operation up to 3.0 kW.

Advantages:

- Wear-free, silent switching
- Insulated enclosure with integrated heat sink
- Degree of protection IP20 finger-safe without additional cover
- Screw-type or spring-loaded connection
- Compact, space-saving design
- Reversing contactors with integrated electrical interlocking
- NEW: Current monitoring relay, directly in the main circuit, for the protection of motor, machine and application

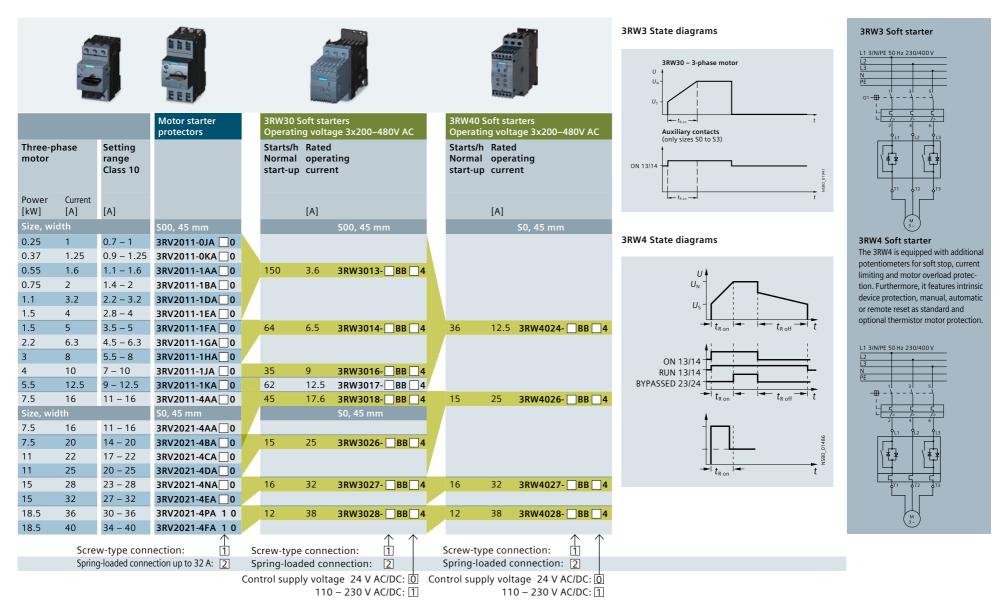


Starter combinations: Circuit breakers and soft starters

Soft starters for a current- and torque-limiting start-up process can be easily combined with the basic components of the SIRIUS modular system. They protect the machine's mechanical power-transmission elements and efficiently protect the mains against high inrush peaks by means of reduced current input.

Advantages:

- Optimum adjustment per application thanks to individual potentiometers
- Minimum power loss, thanks to integrated bypass contacts after completed start-up
- Considerable space savings compared to star-delta combinations



Selection guide for soft starters





Application	SIRIUS 3RW30 Standard applications	SIRIUS 3RW40 Standard applications
Normal starting (CLASS 10)		
Pump	•	•
Pump with special stop (anti-water hammer)		
Heat pump	•	•
Hydraulic pump	O	•
Press	O	•
Conveyor belt	O	•
Roller conveyor	O	•
Screw conveyor	O	•
Escalator		•
Piston compressor		•
Screw compressor		•
Small fan		•
Centrifugal blower		•
Bow thruster		•

Current monitoring relay functions

Analog and digital setting:

- Overcurrent monitoring (wear, overload)
- Undercurrent monitoring (load shedding, no-load operation, belt slippage)
- Cable breakage / phase failure monitoring



Measuring principle:

Apparent current measuring



Additional settings:

- Fault current monitoring
- Phase sequence monitoring
- Immediate disconnection in case of 2- to 5-fold I_{nom} exceedance (blocking)

Measuring principle:

Apparent or active current measuring

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