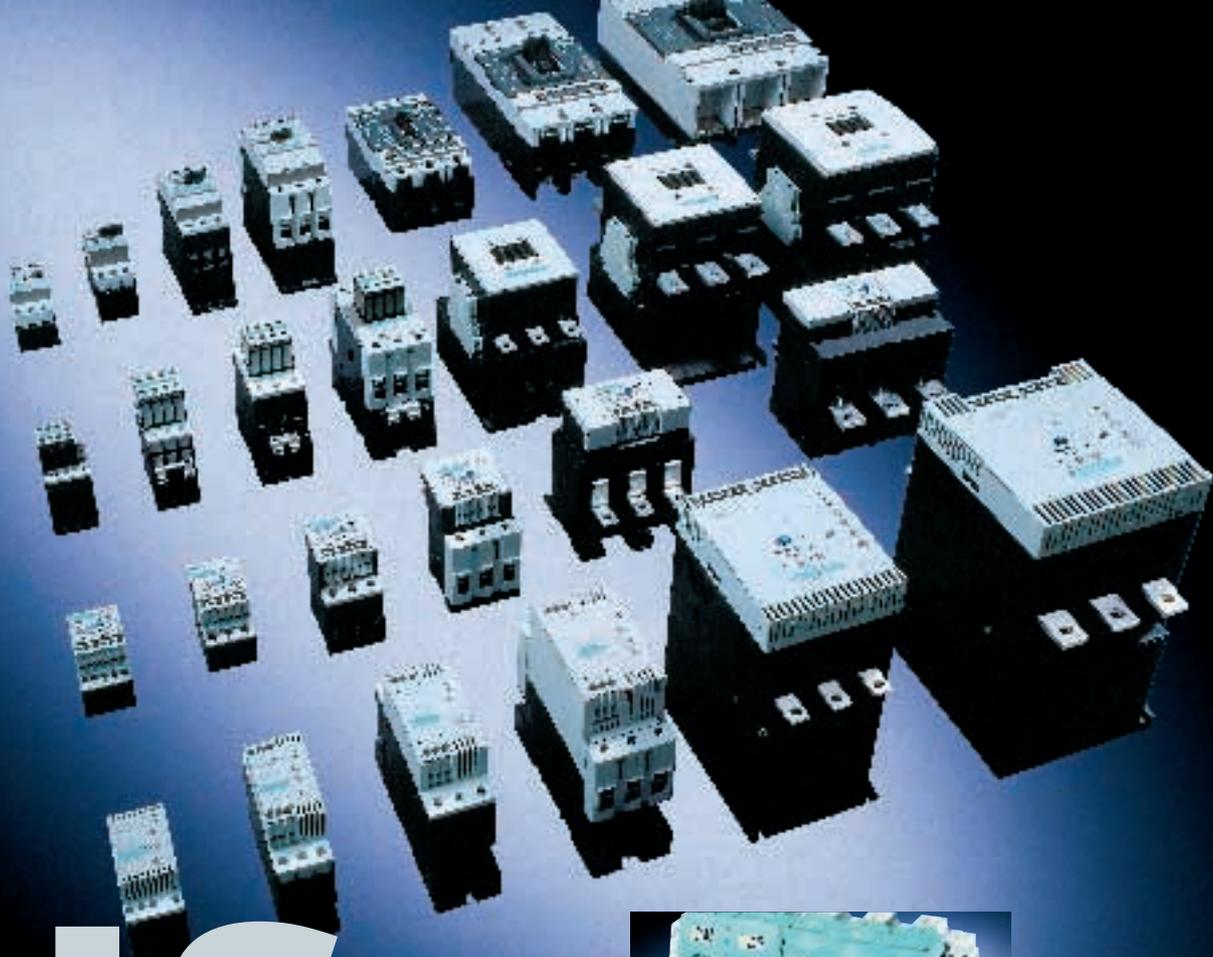


**System-based switching,
protecting, starting.**
SIRIUS Modular System.

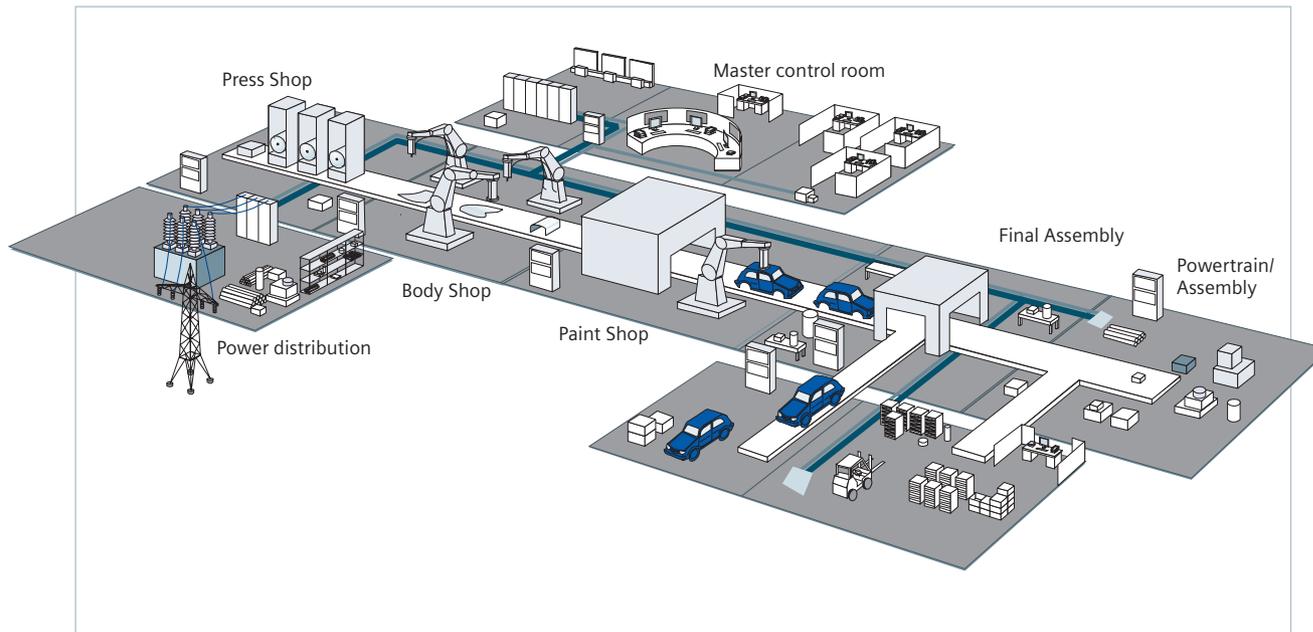


sirius



SIEMENS

Everything for the electrical cabinet: **SIRIUS Modular System.**



Pressing, equipping, transporting. These functions run in many automated production environments. You'll find everything that you need to switch, protect and start motors with the extensive portfolio of the modular SIRIUS system.

Everything. Easy. SIRIUS.



Contents

S00 structure

S00 selection and ordering data:
Circuit breakers, contactors, soft starters, overload relays

S0 structure

S0 selection and ordering data:
Circuit breakers, contactors, soft starters, overload relays

S2 structure

S2 selection and ordering data:
Circuit breakers, contactors, soft starters, overload relays

S3 structure

S3 selection and ordering data:
Circuit breakers, contactors, soft starters, overload relays

S6, S10, S12 structure

S6, S10, S12 selection and ordering data:
Contactors, overload relays, soft starters

**Fuseless load feeders
Infeed system**

**Reversing combinations
up to 45 kW**

**Star-delta combinations
up to 75 kW**

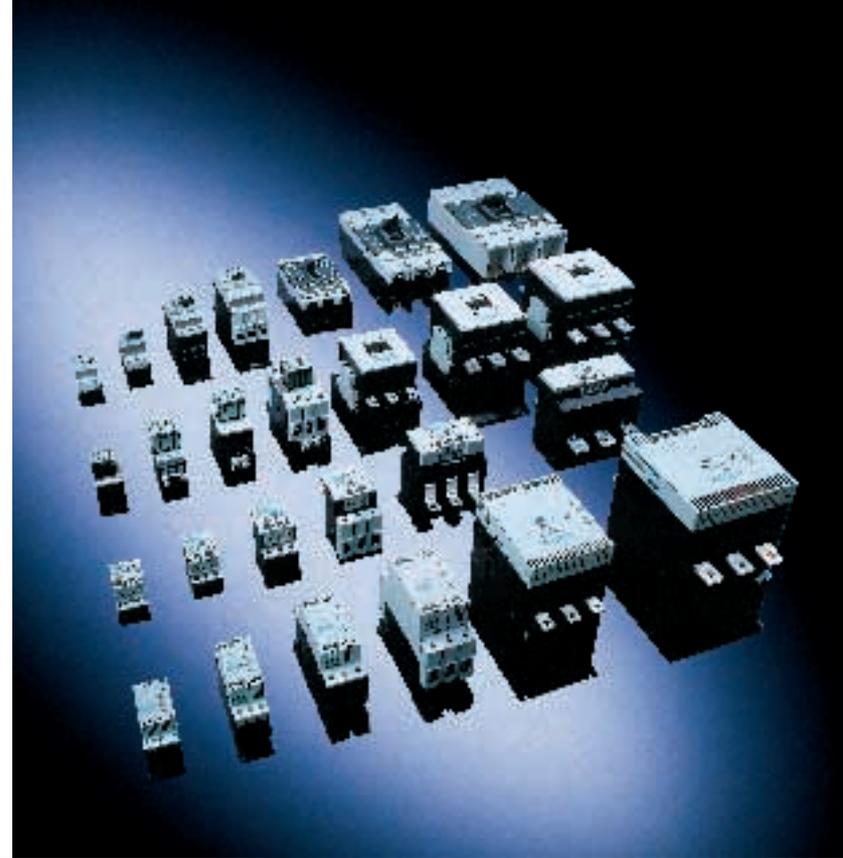
Safety-related load feeders

Accessories

Everything. System-based. SIRIUS Modular System.

When configuring electrical cabinets everything must proceed quickly, simply, flexibly using minimum space. How can all of this be done? With our unique modular system. This offers you everything that you need to switch, protect and start motors and plants. This means a modular range of standard components up to 250 kW/400 V in just 7 sizes. All of the components are optimally harmonized with one another and can be combined easily. They also use the same range of accessories. Industrial controls really can be this simple!

Ongoing development and continuous innovation ensure that our customers – today and tomorrow – are best equipped with SIRIUS, and profit from cost-effective solutions. All of the components of the SIRIUS modular system distinguish themselves due to their space-saving design and high degree of flexibility. Engineering, mounting & installation, wiring and maintenance can be simply implemented and in a time-saving fashion. It doesn't make any difference if you wish to configure your load feeders with circuit breakers or overload relays, contactors or soft starters – SIRIUS always has the optimum product for your particular application.

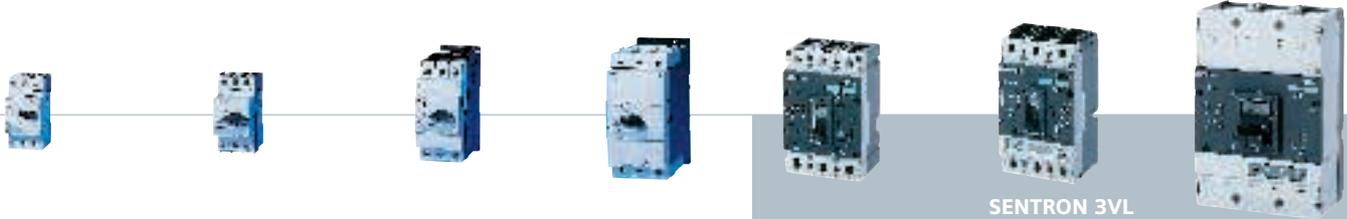


The advantages of the SIRIUS modular system at a glance

| | |
|--------------------------------|--|
| Load feeders | Up to 250 kW/400 V – can be simply realized using standard device |
| Modular design | Everything fits together and can be combined as necessary |
| Versions and sizes | Cost-effective and flexible with 7 compact sizes |
| Accessories | Optimum degree of variance using standard accessories for all devices |
| Design | Fast commissioning, short equipping times, simple wiring |
| Communication | Can be connected to AS-Interface and PROFIBUS DP |
| Service/maintenance | Extremely long service life, reliable and low maintenance |
| Approvals | Approved and certified worldwide – e.g. IEC, UL, CSA, CCC, marine engineering |
| Mounting | Screwed or snapped-on for permanent, safe and reliable mounting |
| Spring-loaded terminals | Fast, safe reliable connection, vibration-proof and maintenance-free |
| Service | Short delivery times include spare parts due to the global logistical network |
| Environmental issues | Environmentally-compatible production and materials, can be recycled, low power loss |
| Design | Clear, ergonomic and has received the iF Product Design Award |

An overview of the **SIRIUS Modular System.**

Circuit breakers



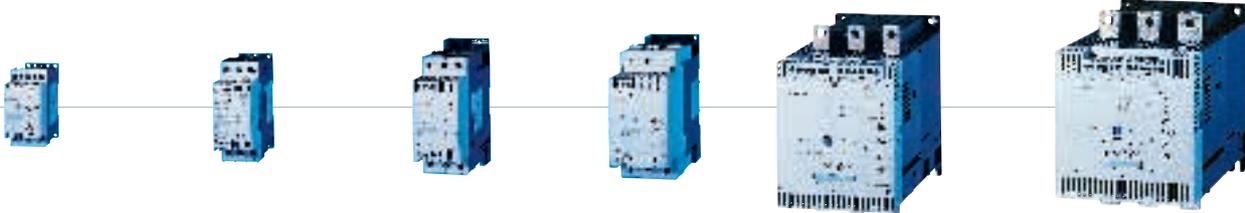
Contactors



Overload relays



Soft starters



S00 S0 S2 S3 S6 S10 S12

Switching. Protecting. Starting.

The components of the SIRIUS Modular System.



Far more than ON/OFF: SIRIUS 3RV circuit breakers

SIRIUS 3RV circuit breakers (MSP) are compact, current-limiting circuit breakers. They guarantee safe reliable shutdown when short circuits occur and protect loads and plants against overload. Furthermore, they are suitable for operationally switching load feeders with a low operating frequency and safely disconnecting the plant or system from the line supply when service is being carried out or changes are being made. SENTRON 3VL circuit breakers are suitable for applications above 100 A. As infeed and load feeder breaker, they protect plants and motors against short circuit and overload.



Rugged and reliable: SIRIUS 3RT contactors

Due to their extremely high ruggedness and optimum contact reliability, our contactors switch with supreme confidence. Furthermore, compact electrical cabinets can be configured with high packing densities. The reason for this is that the auxiliary switch blocks and solenoid protective circuitry are located within the envelope contours of the contactors. This makes it easier to expand the system and saves considerable space in the electrical cabinet.



Tripping when things get tough: SIRIUS 3RU and 3RB overload relays

The overload relays of the SIRIUS family, available as either thermal or solid-state versions, protect loads connected to the main circuit, as a function of the current, and also protect other switching and protective devices in the particular load feeder. The SIRIUS 3RB2 solid-state overload relays guarantee seamless motor and plant

protection from 0.1 A to 630 A. Due to the wide setting ranges, the current range is covered with a minimum number of versions.



Soft starting and stopping: SIRIUS 3RW soft starters

SIRIUS 3RW soft starters offer a seamless range that covers all standard and high-feature motor starting applications. Today, it can be used in the widest range of applications to provide the advantages of soft starting and stopping and for simple, cost-effective implementation of machine concepts.



Fast, reliable and user-friendly: spring-loaded technology

You will have a completely new experience with state-of-the-art spring-loaded technology as it relates to simplicity and speed. These screwless terminals reduce connection times by up to 75%, and eliminate wiring mistakes. They can stand up to the toughest conditions due to the vibration and shockproof design. And they are virtually maintenance-free. It is no surprise that we are already using innovative spring-loaded technology for most of the SIRIUS modular system.

More about the **SIRIUS Modular System.**



Straight ahead: The 3RA11 direct starter



Phases interchanged: The 3RA12 reversing starter

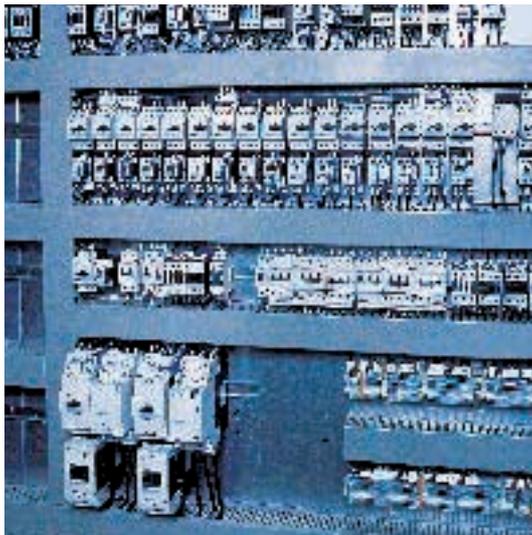


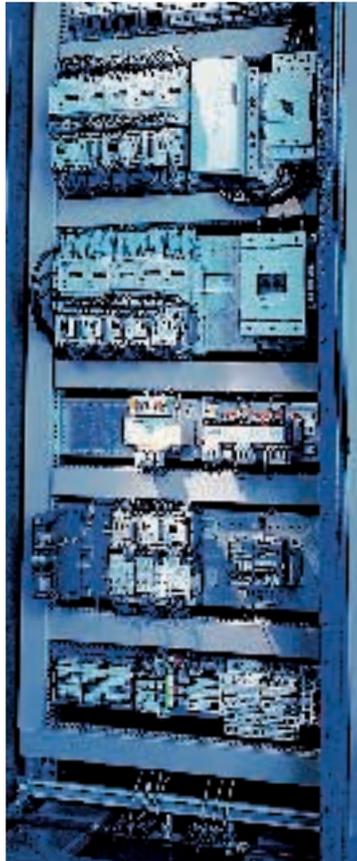
Two stages – one start:
The 3RA14 star-delta combination

Ready for immediate use: Pre-wired SIRIUS load feeders

Load feeders start loads using a combination of protective and switching functions. Generally, a multiple number of components is required to implement every type of starter. In order to reduce time and costs – and especially to minimize downtimes – we offer you a wide range of pre-wired starter solutions:

- Direct starters up to 22 kW – the optimum starter combination for all motors
- Reversing starters up to 11 kW – the matching combination for reversing motors
- Star-delta combinations up to 75 kW – the solution for running-up motors in stages
- Soft starters – when soft starting and stopping is required
- Safe 3RA71 load feeders – pre-mounted, wired and certified for the highest safety categories. Real stars that reduce time and wiring mistakes





User-friendly power infeed and distribution: SIRIUS infeed system

The SIRIUS infeed system allows power to be fed and distributed to a group of several circuit-breakers or complete load feeders in a user-friendly fashion. These devices belong to the modular SIRIUS system and are available with spring-loaded terminals for power ratings up to 5.5 kW at 400 V AC.

If you prefer devices with classic screw terminals, then circuit-breakers and contactors are even available up to sizes S00 and S0. This means that the SIRIUS infeed system can be used for all motor feeders up to 11 kW. Using a terminal block, in addition to the SIRIUS circuit-breakers, additional 1/2/3-pole components – such as relays and miniature circuit-breakers – can be integrated.

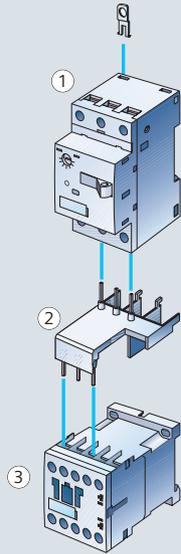
Design highlights

- New degree of flexibility when configuring and extending the system
- Integration of motor feeders with screw and spring-loaded terminals possible
- Maximum current rating of 80 A
- Additional 1-, 2- or 3-pole components can be additionally integrated using the terminal block
- Either infeed from the left or right up to conductor cross-sections of 25 mm²
- Mounting time savings by using simple plug-in connections
- More free space in the control cabinet as a result of the extremely compact design
- High vibration strength, especially for controls with spring-loaded terminals
- Optional wiring duct between feeders



S00 design

Direct start



| | Version | Order No. |
|----------------------------|---------|----------------|
| ① Size S00 circuit breaker | | |
| ② Link module | AC | 3RA19 11-1AA00 |
| ③ Size S00 contactor | | |

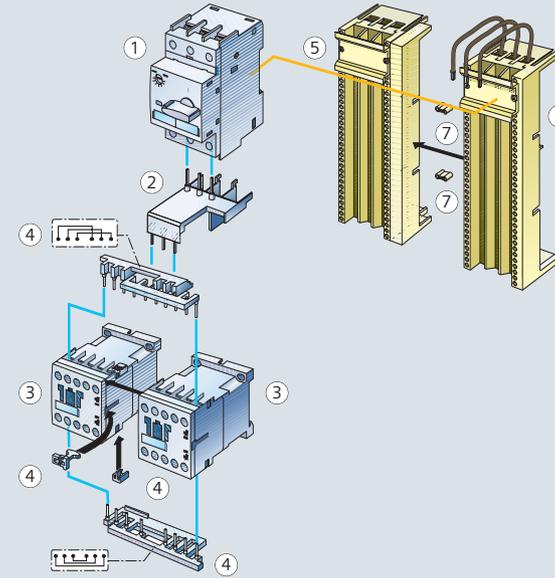
For busbar mounting (alternative)

| | | |
|----------------|-------|----------------|
| Busbar adapter | 40 mm | 8US10 51-5DM07 |
| | 60 mm | 8US12 51-5DM07 |

For rail mounting (diagram)

Directly snapped onto a mounting rail without adapter

Reversing start



| | Version | Order No. |
|---|---------|----------------|
| ① Size S00 circuit breaker | | |
| ② Connector | | 3RA19 11-1AA00 |
| ③ 2, Size S00 contactors | | |
| ④ Wiring kit: upper link module, lower link module, 2 connecting clips, mechanical interlock (these can be eliminated) | | 3RA19 13-2A |

For busbar mounting (diagram)

| | | |
|---|-------|----------------|
| ⑤ Controlgear support | 40 mm | 8US10 50-5AM00 |
| | 60 mm | 8US12 50-5AM00 |
| ⑥ Busbar adapter | 40 mm | 8US10 51-5DM07 |
| | 60 mm | 8US12 51-5DM07 |
| ⑦ Link wedges (1 Order No. = 100 wedges) | | 8US19 98-1AA00 |

For rail mounting (alternative)

Directly snapped onto mounting rails without adapter

**Assembly kit
for busbar mounting**
40 mm: 3RA19 13-1C
60 mm: 3RA19 13-1D
comprising:
1 wiring kit ④
1 busbar adapter ⑥
1 controlgear support ⑤
2 link wedges ⑦

S00 selection and ordering data



- 1) For rated device operating voltage
Ve: 200–460 V (Ve: 460–575 V refer to Catalog)
- 2) When using tripping class CLASS 20 refer to the information in the engineering support “Engineering SIRIUS fuseless load feeders” and also in the Catalog

| 3-phase motor AC-3/400 V | | Circuit breakers (MSP) | |
|--------------------------|------|----------------------------|----------------|
| [kW] | [A] | Setting range CLASS 10 [A] | Order No. |
| 0.04 | 0.14 | 0.11 – 0.16 | 3RV10 11-0AA10 |
| 0.06 | 0.2 | 0.14 – 0.2 | 3RV10 11-0BA10 |
| 0.06 | 0.2 | 0.18 – 0.25 | 3RV10 11-0CA10 |
| 0.09 | 0.3 | 0.22 – 0.32 | 3RV10 11-0DA10 |
| 0.09 | 0.3 | 0.28 – 0.4 | 3RV10 11-0EA10 |
| 0.12 | 0.4 | 0.35 – 0.5 | 3RV10 11-0FA10 |
| 0.18 | 0.6 | 0.45 – 0.63 | 3RV10 11-0GA10 |
| 0.18 | 0.6 | 0.55 – 0.8 | 3RV10 11-0HA10 |
| 0.25 | 0.8 | 0.7 – 1 | 3RV10 11-0JA10 |
| 0.37 | 1.1 | 0.9 – 1.25 | 3RV10 11-0KA10 |
| 0.55 | 1.5 | 1.1 – 1.6 | 3RV10 11-1AA10 |
| 0.75 | 1.9 | 1.4 – 2 | 3RV10 11-1BA10 |
| 0.75 | 1.9 | 1.8 – 2.5 | 3RV10 11-1CA10 |
| 1.1 | 2.7 | 2.2 – 3.2 | 3RV10 11-1DA10 |
| 1.5 | 3.6 | 2.8 – 4 | 3RV10 11-1EA10 |
| 1.5 | 3.6 | 3.5 – 5 | 3RV10 11-1FA10 |
| 2.2 | 5.2 | 4.5 – 6.3 | 3RV10 11-1GA10 |
| 3 | 6.8 | 5.5 – 8 | 3RV10 11-1HA10 |
| 4 | 9 | 7 – 10 | 3RV10 11-1JA10 |
| 5.5 | 11.5 | 9 – 12 | 3RV10 11-1KA10 |

| Contactors | | |
|------------------------|--------------------|----------------|
| Control supply voltage | Auxiliary switches | Order No. |
| AC 230 V, 50/60 Hz | 1NC | 3RT10 15-1AP02 |
| | 1NO | 3RT10 15-1AP01 |
| DC 24 V | 1NC | 3RT10 15-1BB42 |
| | 1NO | 3RT10 15-1BB41 |
| AC 230 V, 50/60 Hz | 1NC | 3RT10 16-1AP02 |
| | 1NO | 3RT10 16-1AP01 |
| DC 24 V | 1NC | 3RT10 16-1BB42 |
| | 1NO | 3RT10 16-1BB41 |
| AC 230 V, 50/60 Hz | 1NC | 3RT10 17-1AP02 |
| | 1NO | 3RT10 17-1AP01 |
| DC 24 V | 1NC | 3RT10 17-1BB42 |
| | 1NO | 3RT10 17-1BB41 |

| Soft starters | | |
|------------------------|--|----------------|
| Control supply voltage | Rated operating current ¹⁾ I _e | Order No. |
| AC/DC 110–230 V | 6 | 3RW30 14-1CB14 |
| AC/DC DC 24 V | 6 | 3RW30 14-1CB04 |
| AC/DC 110–230 V | 9 | 3RW30 16-1CB14 |
| AC/DC 24 V | 9 | 3RW30 16-1CB04 |

| Overload relays | | | |
|----------------------------|-------------------|-------------------|-----------------------|
| Setting range CLASS 10 [A] | Thermal Order No. | Setting range [A] | Solid-state Order No. |
| 0.11 – 0.16 | 3RU11 16-0AB0 | 0,1 – 0,4 | 3RB2□1□-□RB0 |
| 0.14 – 0.2 | 3RU11 16-0BB0 | | |
| 0.18 – 0.25 | 3RU11 16-0CB0 | | |
| 0.22 – 0.32 | 3RU11 16-0DB0 | | |
| 0.28 – 0.4 | 3RU11 16-0EB0 | | |
| 0.35 – 0.5 | 3RU11 16-0FB0 | | |
| 0.45 – 0.63 | 3RU11 16-0GB0 | 0,32 – 1,25 | 3RB2□1□-□NB0 |
| 0.55 – 0.8 | 3RU11 16-0HB0 | | |
| 0.7 – 1 | 3RU11 16-0JB0 | | |
| 0.9 – 1.25 | 3RU11 16-0KB0 | | |
| 1.1 – 1.6 | 3RU11 16-1AB0 | | |
| 1.4 – 2 | 3RU11 16-1BB0 | | |
| 1.8 – 2.5 | 3RU11 16-1CB0 | 1 – 4 | 3RB2□1□-□PB0 |
| 2.2 – 3.2 | 3RU11 16-1DB0 | | |
| 2.8 – 4 | 3RU11 16-1EB0 | | |
| 3.5 – 5 | 3RU11 16-1FB0 | | |
| 4.5 – 6.3 | 3RU11 16-1GB0 | | |
| 5.5 – 8 | 3RU11 16-1HB0 | | |
| 7 – 10 | 3RU11 16-1JB0 | 3 – 12 | 3RB2□1□-□SB0 |
| 9 – 12 | 3RU11 16-1KB0 | | |

Class 10

| | | |
|---|---|---|
| 0 | 6 | 1 |
|---|---|---|

 Class 20

| | | |
|---|---|---|
| 0 | 6 | 2 |
|---|---|---|

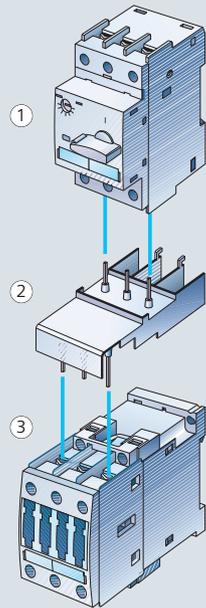
 Class 5...30*

| | | |
|---|---|---|
| 1 | 3 | 4 |
|---|---|---|

 * With ground fault detection (can be activated) and electrical remote reset.

S0 design

Direct start



| | Version | Order No. |
|---------------------------|----------|----------------------------------|
| ① Size S0 circuit breaker | | |
| ② Link module | AC DC | 3RA19 21-1AA00 3RA19 21-1BA00 |
| ③ Size S0 contactor | | |

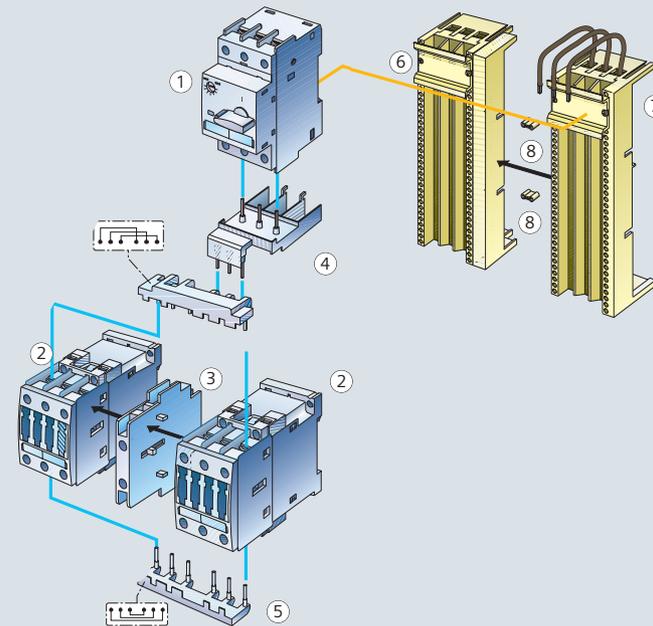
For busbar mounting (alternative)

| | | |
|----------------|----------------|----------------------------------|
| Busbar adapter | 40 mm 60 mm | 8US10 51-5DM07 8US12 51-5DM07 |
|----------------|----------------|----------------------------------|

For rail mounting (diagram)

Directly snapped onto a mounting rail without adapter

Reversing start



**Assembly kit
for busbar mounting**
40 mm: 3RA19 13-1C
60 mm: 3RA19 13-1D
comprising:
1 wiring kit ⑤
1 busbar adapter ⑥
1 controlgear support ⑦
2 link wedges ⑧

**Assembly kit
for rail mounting**
3RA19 23-1B
comprising:
1 wiring kit ⑤
2 rail adapter
2 side modules
4 link wedges ⑧

| | Version | Order No. |
|--|----------------|----------------------------------|
| ① Size S0 circuit breaker | | |
| ② 2, Size S0 connectors | | |
| ③ Mechanical interlock | | 3RA19 24-2B |
| ④ Link module | AC DC | 3RA19 21-1AA00 3RA19 21-1BA00 |
| ⑤ Wiring kit: upper link module, lower link module | | 3RA19 23-2A |
| For busbar mounting (diagram) | | |
| ⑥ Controlgear support | 40 mm 60 mm | 8US10 60-5AM00 8US12 60-5AM00 |
| ⑦ Busbar adapter | 40 mm 60 mm | 8US10 51-5DM07 8US12 51-5DM07 |
| ⑧ Link wedges (1 Order No. = 100 wedges) | | 8US19 98-1AA00 |
| For rail mounting (alternative) | | |
| Rail adapter | | 3RA19 22-1AA00 |
| Side module (1 Order No. = 100 modules) | | 3RA19 02-1B |
| Link wedges (1 Order No. = 100 wedges) | | 8US19 98-1AA00 |

S0 selection and ordering data



- 1) For rated device operating voltage
Ve: 200–460 V (Ve: 460–575 V refer to Catalog)
- 2) When using tripping class CLASS 20 refer to the information in the engineering support “Engineering SIRIUS fuseless load feeders” and also in the Catalog
- 3) Fan available as accessory

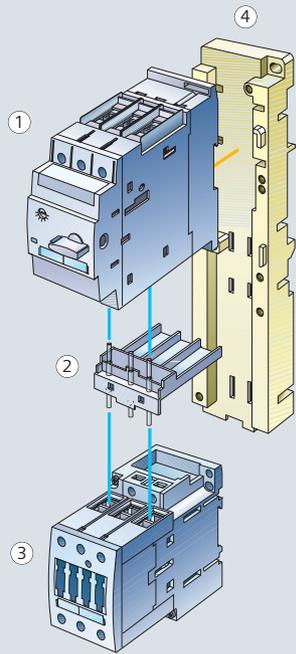
| 3-phase motor AC-3/400 V | | Circuit breakers (MSP) | | Contactors | | Soft starters | | Overload relays | | | | | |
|-----------------------------|------|----------------------------------|----------------|---------------------------------|--------------------|----------------------------------|---------------------------------------|---|----------------|----------------------------------|-------------------|----------------------|-----------------------|
| [kW] | [A] | Setting range CLASS 10 [A] | Order No. | Control supply voltage | Auxiliary contacts | Order No. | Control supply voltage | Rated-operating current ¹⁾ <i>I_e</i> | Order No. | Setting range CLASS 10 [A] | Thermal Order No. | Setting range [A] | Solid-state Order No. |
| 5.5 | 11.5 | 9 – 12.5 | 3RV10 21-1KA10 | AC 230 V, 50/60 Hz – DC 24 V | – | 3RT10 24-1AL20 3RT10 24-1BB40 | AC/DC 110–230 V ³⁾ 12.5 | 12.5 | 3RW30 24-1AB14 | 9 – 12.5 | 3RU11 26-1KB0 | | |
| 7.5 | 15.5 | 11 – 16 | 3RV10 21-4AA10 | | | | AC/DC 24 V ³⁾ 12.5 | 12.5 | 3RW30 24-1AB04 | 11 – 16 | 3RU11 26-4AB0 | | |
| 7.5 | 15.5 | 14 – 20 | 3RV10 21-4BA10 | AC 230 V, 50/60 Hz – DC 24 V | – | 3RT10 25-1AL20 3RT10 25-1BB40 | AC/DC 110–230 V ³⁾ 16 | 16 | 3RW30 25-1AB14 | 14 – 20 | 3RU11 26-4BB0 | 6 – 25 | 2RB2□2□-□QB0 |
| 11 | 22 | 17 – 22 | 3RV10 21-4CA10 | | | | AC/DC 24 V ³⁾ 16 | 16 | 3RW30 25-1AB04 | 17 – 22 | 3RU11 26-4CB0 | | |
| 11 | 22 | 20 – 25 | 3RV10 21-4DA10 | AC 230 V, 50/60 Hz – DC 24 V | – | 3RT10 26-1AL20 3RT10 26-1BB40 | AC/DC 110–230 V ³⁾ 25 | 25 | 3RW30 26-1AB14 | 20 – 25 | 3RU11 26-4DB0 | | |
| | | | | | | | AC/DC 24 V ³⁾ 25 | 25 | 3RW30 26-1AB04 | | | | |

Class 10 0 6 1
 Class 20 0 6 2
 Class 5...30* 1 3 4

* With ground fault detection (can be activated) and electrical remote reset.

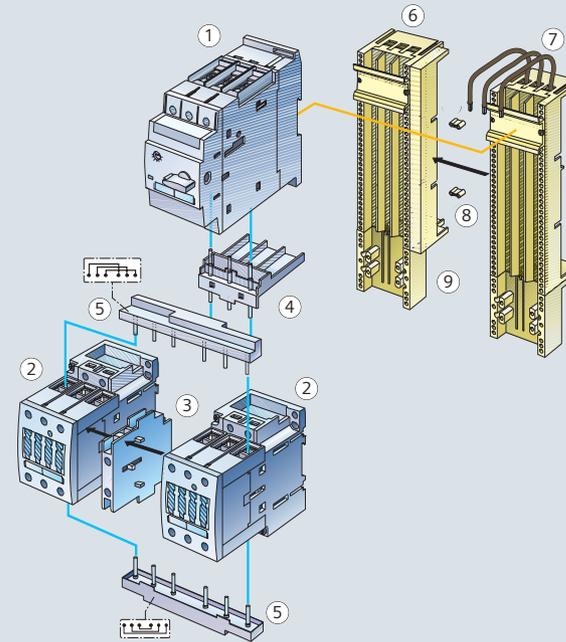
S2 design

Direct start



| | Version | Order No. |
|--|----------------|----------------------------------|
| ① Size S2 circuit breaker | | |
| ② Link module | AC DC | 3RA19 31-1AA00 3RA19 31-1BA00 |
| ③ Size S2 contactor | | |
| For busbar mounting (alternative) | | |
| Busbar adapter | 40 mm 60 mm | 8US10 61-5FP08 8US12 61-5FP08 |
| For rail mounting (diagram) | | |
| ④ Rail adapter | | 3RA19 32-1AA00 |

Reversing start



**Assembly kit
for busbar mounting**
40 mm: 3RA19 33-1C
60 mm: 3RA19 33-1D
comprising:
1 wiring kit ⑤
1 busbar adapter ⑥
1 controlgear support ⑦
1 side module ⑨
2 link wedges ⑧

**Assembly kit
for rail mounting**
3RA19 33-1B
comprising:
1 wiring kit ⑤
2 rail adapter
2 side modules
4 link wedges ⑧

| | Version | Order No. |
|--|----------------|----------------------------------|
| ① Size S2 circuit breaker | | |
| ② 2, Size S2 connectors | | |
| ③ Mechanical interlock | | 3RA19 24-2B |
| ④ Link module | AC DC | 3RA19 31-1AA00 3RA19 31-1BA00 |
| ⑤ Wiring kit: upper link module, lower link module | | 3RA19 33-2A |
| For busbar mounting (diagram) | | |
| ⑥ Controlgear support | 40 mm 60 mm | 8US10 60-5AP00 8US12 60-5AP00 |
| ⑦ Busbar adapter | 40 mm 60 mm | 8US10 61-5FP08 8US12 61-5FP08 |
| ⑧ Link wedges (1 Order No. = 100 wedges) | | 8US19 98-1AA00 |
| ⑨ Side module | | 8US19 98-2MB00 |
| For rail mounting (alternative) | | |
| Rail adapter | | 3RA19 32-1AA00 |
| Link wedges (1 Order No. = 100 wedges) | | 8US19 98-1AA00 |

S2 selection and ordering data



- 1) For rated device operating voltage
Ve: 200–460 V (Ve: 460–575 V refer to Catalog)
- 2) When using tripping class CLASS 20 refer to the information in the engineering support “Engineering SIRIUS fuseless load feeders” and also in the Catalog
- 3) Fan available as accessory

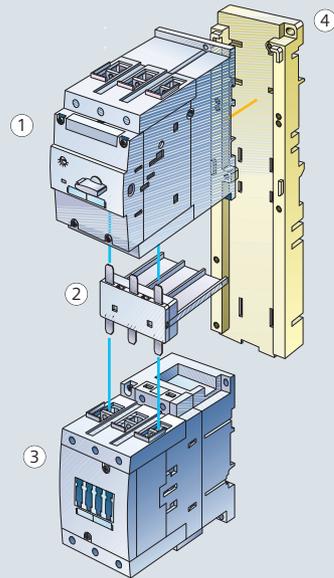
| 3-phase motor AC-3/400 V | | Circuit breakers (MSP) | | Contactors | | Soft starters | | Overload relays | | | | | |
|-----------------------------|-----|----------------------------------|----------------|---------------------------------|--------------------|----------------------------------|-------------------------------------|---|----------------|----------------------------------|-------------------|----------------------|-----------------------|
| [kW] | [A] | Setting range CLASS 10 [A] | Order No. | Control supply voltage | Auxiliary contacts | Order No. | Control supply voltage | Rated operating current ¹⁾ <i>I_e</i> | Order No. | Setting range CLASS 10 [A] | Thermal Order No. | Setting range [A] | Solid-state Order No. |
| 15 | 29 | 22 – 32 | 3RV10 31-4EA10 | AC 230 V, 50/60 Hz – DC 24 V | – | 3RT10 34-1AL20 3RT10 34-1BB40 | AC/DC 110–230 V ³⁾ 32 | 32 | 3RW30 34-1AB14 | 22 – 32 | 3RU11 36-4EB0 | | |
| 18.5 | 35 | 28 – 40 | 3RV10 31-4FA10 | AC 230 V, 50/60 Hz – DC 24 V | – | 3RT10 35-1AL20 3RT10 35-1BB40 | AC/DC 110–230 V ³⁾ 32 | 32 | 3RW30 34-1AB04 | 28 – 40 | 3RU11 36-4FB0 | | |
| 22 | 41 | 36 – 45 | 3RV10 31-4GA10 | AC 230 V, 50/60 Hz – DC 24 V | – | 3RT10 36-1AL20 3RT10 36-1BB40 | AC/DC 110–230 V ³⁾ 38 | 38 | 3RW30 35-1AB14 | 36 – 45 | 3RU11 36-4GB0 | 12,5 – 50 | 3RB2□3□-□UB0 |
| 22 | 41 | 40 – 50 | 3RV10 31-4HA10 | AC 230 V, 50/60 Hz – DC 24 V | – | 3RT10 36-1AL20 3RT10 36-1BB40 | AC/DC 110–230 V ³⁾ 45 | 45 | 3RW30 36-1AB14 | 40 – 50 | 3RU11 36-4HB0 | | |
| | | | | | | | AC/DC 24 V ³⁾ | 45 | 3RW30 36-1AB04 | | | | |

Class 10 0 6 1
 Class 20 0 6 2
 Class 5...30* 1 3 4

* With ground fault detection
(can be activated) and
electrical remote reset.

S3 design

Direct start

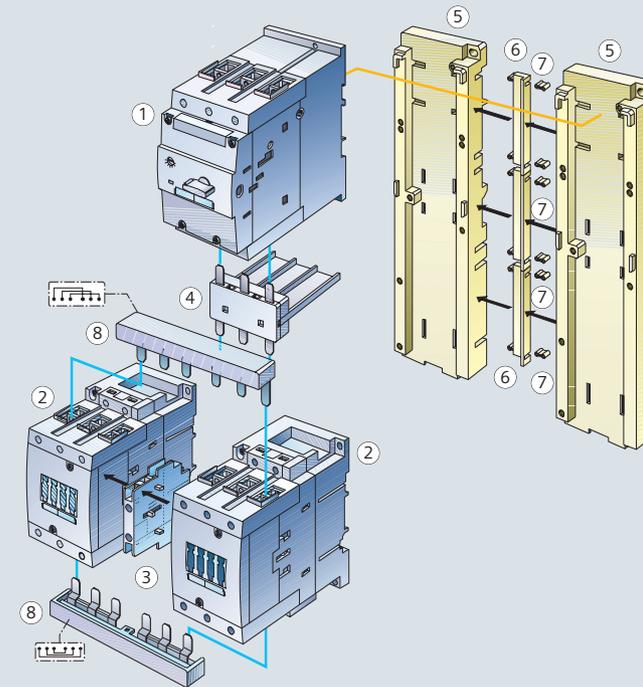


- ① Size S3 circuit breaker
- ② Link module
- ③ Size S3 contactor
- ④ Rail adapter

| Version | Order No. |
|---------|----------------|
| AC | 3RA19 41-1AA00 |
| DC | 3RA19 41-1BA00 |

3RA19 42-1A

Reversing start



- ① Size S3 circuit breaker
- ② 2, Size S3 connectors
- ③ Mechanical interlock
- ④ Link module
- ⑤ Rail adapter
- ⑥ Side modules for rail adapters
(1 Order No. = 10 adapters)
- ⑦ Link wedge (1 Order No. = 100 wedges)
- ⑧ Wiring kit:
upper link module,
lower link module

| Version | Order No. |
|---------|----------------|
| AC | 3RA19 41-1AA00 |
| DC | 3RA19 41-1BA00 |

3RA19 24-2B

3RA19 42-1AA00

3RA19 02-1B

8US19 98-1AA00

3RA19 43-2A

Assembly kit for rail mounting

3RA19 43-1B

comprising:

- 1 wiring kit ⑧
- 2 rail adapter ⑤
- 3 side modules ⑥
- 6 link wedges ⑦

S3 selection and ordering data



- 1) For rated device operating voltage
Ve: 200–460 V (Ve: 460–575 V refer to Catalog)
- 2) When using tripping class CLASS 20 refer to the information in the engineering support "Engineering SIRIUS fuseless load feeders" and also in the Catalog
- 3) Fan available as accessory

| 3-phase motor AC-3/400 V | | Circuit breakers (MSP) | | Contactors | | Soft starters | | | Overload relays | | | | |
|-----------------------------|-----|----------------------------------|----------------|-------------------------------|--------------------|----------------------------------|--------------------------------------|---|-----------------|----------------------------------|-------------------|----------------------|-----------------------|
| [kW] | [A] | Setting range CLASS 10 [A] | Order No. | Control supply voltage | Auxiliary switches | Order No. | Control supply voltage | Rated operating current ¹⁾ <i>I_e</i> | Order No. | Setting range CLASS 10 [A] | Thermal Order No. | Setting range [A] | Solid-state Order No. |
| 30 | 55 | 45 – 63 | 3RV10 41-4JA10 | AC 230 V, 50/60 Hz DC 24 V | – – | 3RT10 44-1AL20 3RT10 44-1BB40 | AC/DC 110–230 V ³⁾ 63 | 63 | 3RW30 44-1AB14 | 45 – 63 | 3RU11 46-4JB0 | 25 – 100 | 3RB2□4□-□EB0 |
| 37 | 67 | 57 – 75 | 3RV10 41-4KA10 | AC 230 V, 50/60 Hz DC 24 V | – – | 3RT10 45-1AL20 3RT10 45-1BB40 | AC/DC 24 V ³⁾ 63 | 63 | 3RW30 44-1AB04 | 57 – 75 | 3RU11 46-4KB0 | | |
| 45 | 80 | 70 – 90 | 3RV10 41-4LA10 | AC 230 V, 50/60 Hz DC 24 V | – – | 3RT10 46-1AL20 3RT10 46-1BB40 | AC/DC 110–230 V ³⁾ 75 | 75 | 3RW30 45-1AB14 | 70 – 90 | 3RU11 46-4LB0 | | |
| 45 | 80 | 80 – 100 | 3RV10 41-4MA10 | AC 230 V, 50/60 Hz DC 24 V | – – | 3RT10 46-1AL20 3RT10 46-1BB40 | AC/DC 24 V ³⁾ 75 | 75 | 3RW30 45-1AB04 | 80 – 100 | 3RU11 46-4MB0 | | |
| | | | | | | | AC/DC 110–230 V ³⁾ 100 | 100 | 3RW30 46-1AB14 | | | | |
| | | | | | | | AC/DC 24 V ³⁾ 100 | 100 | 3RW30 46-1AB04 | | | | |

Class 10 0 6 1
 Class 20 0 6 2
 Class 5...30* 1 3 4

* With ground fault detection (can be activated) and electrical remote reset.

S6, S10, S12 selection and ordering data



| S6 | | Contactors | | | | | |
|--------------------------|-----|---|----------------------------------|--------------------|---------------------|----------------------------|--|
| 3-phase motor AC-3/400 V | | Electromagnetic operating mechanism | Control supply voltage [AC/DC V] | Auxiliary switches | Contactor Order No. | Vacuum contactor Order No. | |
| [kW] | [A] | | | | | | |
| 55 | 115 | Conventional | 220–240 | 2NO + 2NC | 3RT1054-1AP36 | – | |
| | | Electronic | | | | | |
| | | – for 24 V DC PLC output | 200–277 | 2NO + 2NC | 3RT1054-1NP36 | – | |
| | | – for 24 V DC PLC output w/ RLT ³⁾ | 200–277 | 1NO + 1NC | 3RT1054-1PP35 | – | |
| | | – with AS-i interface and RLT ³⁾ | 200–277 | 1NO + 1NC | 3RT1054-1QP35 | – | |
| 75 | 150 | Conventional | 220–240 | 2NO + 2NC | 3RT1055-6AP36 | – | |
| | | Electronic | | | | | |
| | | – for 24 V DC PLC output | 200–277 | 2NO + 2NC | 3RT1055-6NP36 | – | |
| | | – for 24 V DC PLC output w/ RLT ³⁾ | 200–277 | 1NO + 1NC | 3RT1055-6PP35 | – | |
| | | – with AS-i interface and RLT ³⁾ | 200–277 | 1NO + 1NC | 3RT1055-6QP35 | – | |
| 90 | 185 | Conventional | 220–240 | 2NO + 2NC | 3RT1056-6AP36 | – | |
| | | Electronic | | | | | |
| | | – for 24 V DC PLC output | 200–277 | 2NO + 2NC | 3RT1056-6NP36 | – | |
| | | – for 24 V DC PLC output w/ RLT ³⁾ | 200–277 | 1NO + 1NC | 3RT1056-6PP35 | – | |
| | | – with AS-i interface and RLT ³⁾ | 200–277 | 1NO + 1NC | 3RT1056-6QP35 | – | |

| Overload relays | | |
|----------------------------|-----------------------|-----------------------------------|
| Setting range CLASS 10 [A] | Solid-state Order No. | Version |
| 50 – 200 | 3RB2□5□-□FW2 | with straight-through transformer |
| 50 – 200 | 3RB2□5□-□FC2 | with busbar connection |

Class 10

| | | |
|---|---|---|
| 0 | 6 | 1 |
|---|---|---|

 Class 20

| | | |
|---|---|---|
| 0 | 6 | 2 |
|---|---|---|

 Class 5...30*

| | | |
|---|---|---|
| 1 | 3 | 4 |
|---|---|---|

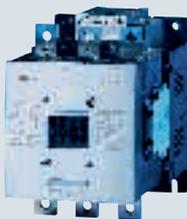
* With ground fault detection (can be activated) and electrical remote reset.

| Soft starters | | |
|------------------------|--|----------------|
| Control supply voltage | Rated operating current ¹⁾ I _e [A] | Order No. |
| AC 230 V | 134 | 3RW40 55-6BB44 |
| AC 115 V | 134 | 3RW40 55-6BB34 |
| AC 230 V | 162 | 3RW40 56-6BB44 |
| AC 115 V | 162 | 3RW40 56-6BB34 |



S10

| | | | | | | |
|-----|-----|---|---------|-----------|---------------|---------------|
| 110 | 225 | Conventional | 220–240 | 2NO + 2NC | 3RT1064-6AP36 | 3RT1264-6AP36 |
| | | Electronic | | | | |
| | | – for 24 V DC PLC output | 200–277 | 2NO + 2NC | 3RT1064-6NP36 | 3RT1264-6NP36 |
| | | – for 24 V DC PLC output w/ RLT ³⁾ | 200–277 | 1NO + 1NC | 3RT1064-6PP35 | – |
| | | – with AS-i interface and RLT ³⁾ | 200–277 | 1NO + 1NC | 3RT1064-6QP35 | – |
| 132 | 265 | Conventional | 220–240 | 2NO + 2NC | 3RT1065-6AP36 | 3RT1265-6AP36 |
| | | Electronic | | | | |
| | | – for 24 V DC PLC output | 200–277 | 2NO + 2NC | 3RT1065-6NP36 | 3RT1265-6NP36 |
| | | – for 24 V DC PLC output w/ RLT ³⁾ | 200–277 | 1NO + 1NC | 3RT1065-6PP35 | – |
| | | – with AS-i interface and RLT ³⁾ | 200–277 | 1NO + 1NC | 3RT1065-6QP35 | – |
| 160 | 300 | Conventional | 220–240 | 2NO + 2NC | 3RT1066-6AP36 | 3RT1266-6AP36 |
| | | Electronic | | | | |
| | | – for 24 V DC PLC output | 200–277 | 2NO + 2NC | 3RT1066-6NP36 | 3RT1266-6NP36 |
| | | – for 24 V DC PLC output w/ RLT ³⁾ | 200–277 | 1NO + 1NC | 3RT1066-6PP35 | – |
| | | – with AS-i interface and RLT ³⁾ | 200–277 | 1NO + 1NC | 3RT1066-6QP35 | – |



S12

| | | | | | | |
|-----|-----|---|---------|-----------|---------------|---------------|
| 200 | 400 | Conventional | 220–240 | 2NO + 2NC | 3RT1075-6AP36 | 3RT1275-6AP36 |
| | | Electronic | | | | |
| | | – for 24 V DC PLC output | 200–277 | 2NO + 2NC | 3RT1075-6NP36 | 3RT1275-6NP36 |
| | | – for 24 V DC PLC output w/ RLT ³⁾ | 200–277 | 1NO + 1NC | 3RT1075-6PP35 | – |
| | | – with AS-i interface and RLT ³⁾ | 200–277 | 1NO + 1NC | 3RT1075-6QP35 | – |
| 250 | 500 | Conventional | 220–240 | 2NO + 2NC | 3RT1076-6AP36 | 3RT1276-6AP36 |
| | | Electronic | | | | |
| | | – for 24 V DC PLC output | 200–277 | 2NO + 2NC | 3RT1076-6NP36 | 3RT1276-6NP36 |
| | | – for 24 V DC PLC output w/ RLT ³⁾ | 200–277 | 1NO + 1NC | 3RT1076-6PP35 | – |
| | | – with AS-i interface and RLT ³⁾ | 200–277 | 1NO + 1NC | 3RT1076-6QP35 | – |

For applications above 100 A, SIRIUS contactors can be combined with SENTRON 3VL circuit breakers.
For more detailed information please refer to the engineering brochure "Engineering SIRIUS fuseless load feeders".

55 – 250 3RB2□6□-□GC2 with busbar connection

160 – 630 3RB2□6□-□MC2 with busbar connection



160 – 630 3RB2□6□-□MC2 with busbar connection

| | | | |
|--------------|---|---|---|
| Class 10 | 0 | 6 | 1 |
| Class 20 | 0 | 6 | 2 |
| Class 5...30 | 1 | 3 | 4 |

* With ground fault detection (can be activated) and electrical remote reset.

- 1) For rated device operating voltage
Ve: 200–460 V (Ve: 400–600 V refer to Catalog)
- 2) When using tripping class CLASS 20 refer to the information in the engineering document "Engineering SIRIUS fuseless load feeders" and as well as in the Catalog
- 3) RLT: Remaining lifetime

AC 230 V 230 3RW40 73-6BB44

AC 115 V 230 3RW40 73-6BB34

AC 230 V 280 3RW40 74-6BB44

AC 115 V 280 3RW40 74-6BB34

AC 230 V 356 3RW40 75-6BB44

AC 115 V 356 3RW40 75-6BB44

AC 230 V 432 3RW40 76-6BB44

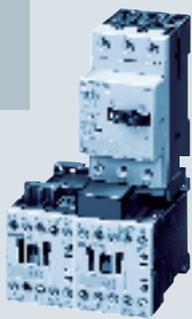
AC 115 V 432 3RW40 76-6BB34



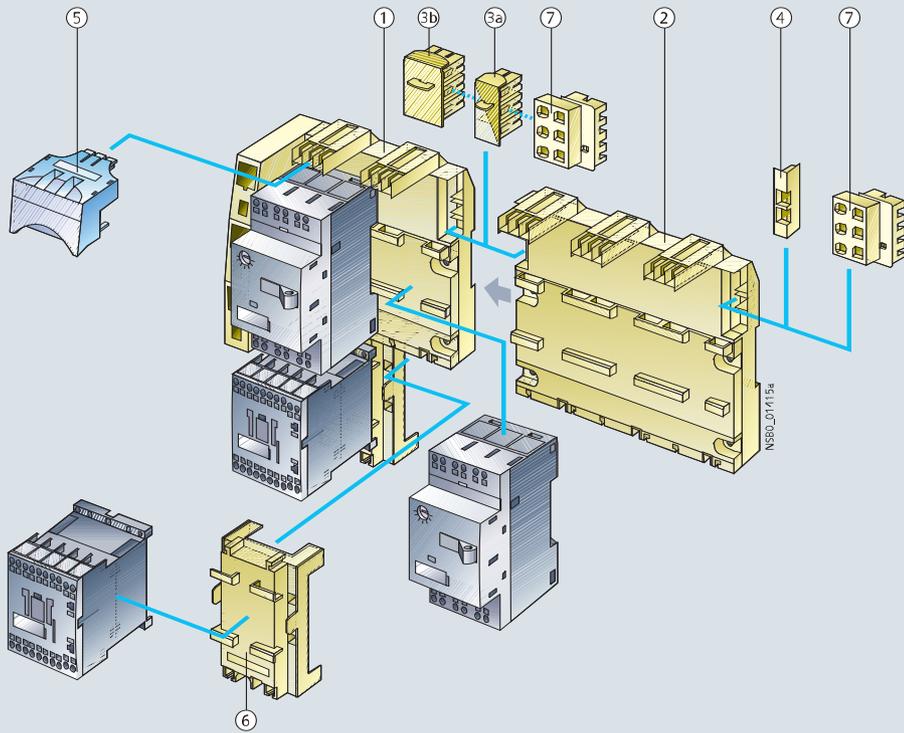
SETRON 3VL circuit breakers are suitable for fuseless short circuit and overload protection for soft starters from Size S6. For more detailed information, please refer to the Catalog.

Completely mounted/assembled load feeders

Fuseless load feeders

| 3-phase motor AC-3/400 V | | Setting range, thermal overload release | 3RA coordination type 2 230 V AC direct | | 3RA coordination type 2 230 V AC reversing | | Size | 3RA coordination type 1 230 V AC direct | | 3RA coordination type 1 230 V AC reversing | | Size |
|-----------------------------|------|--|---|---------------------|--|---------------------|------|---|---|--|---|------|
| [kW] | [A] | | | | | | | | | | | |
| 0.06 | 0.2 | 0.14 – 0.2 | 3RA11 10-0BA15-1AP0 | 3RA12 10-0BA15-0AP0 | 3RA11 10-0CA15-1AP0 | 3RA12 10-0CA15-0AP0 | S00 | Coordination type 2 also fulfills coordination type 1 | Coordination type 2 also fulfills coordination type 1 | S00 |  | |
| 0.06 | 0.2 | 0.18 – 0.25 | 3RA11 10-0CA15-1AP0 | 3RA12 10-0CA15-0AP0 | 3RA11 10-0DA15-1AP0 | 3RA12 10-0DA15-0AP0 | | | | | | |
| 0.09 | 0.3 | 0.22 – 0.32 | 3RA11 10-0DA15-1AP0 | 3RA12 10-0DA15-0AP0 | 3RA11 10-0EA15-1AP0 | 3RA12 10-0EA15-0AP0 | | | | | | |
| 0.09 | 0.3 | 0.28 – 0.4 | 3RA11 10-0EA15-1AP0 | 3RA12 10-0EA15-0AP0 | 3RA11 10-0FA15-1AP0 | 3RA12 10-0FA15-0AP0 | | | | | | |
| 0.12 | 0.4 | 0.35 – 0.5 | 3RA11 10-0FA15-1AP0 | 3RA12 10-0FA15-0AP0 | 3RA11 10-0GA15-1AP0 | 3RA12 10-0GA15-0AP0 | | | | | | |
| 0.18 | 0.6 | 0.45 – 0.63 | 3RA11 10-0GA15-1AP0 | 3RA12 10-0GA15-0AP0 | 3RA11 10-0HA15-1AP0 | 3RA12 10-0HA15-0AP0 | | | | | | |
| 0.18 | 0.6 | 0.55 – 0.8 | 3RA11 10-0HA15-1AP0 | 3RA12 10-0HA15-0AP0 | 3RA11 10-0JA15-1AP0 | 3RA12 10-0JA15-0AP0 | | | | | | |
| 0.25 | 0.6 | 0.7 – 1 | 3RA11 10-0JA15-1AP0 | 3RA12 10-0JA15-0AP0 | 3RA11 10-0KA15-1AP0 | 3RA12 10-0KA15-0AP0 | | | | | | |
| 0.37 | 1.1 | 0.9 – 1.25 | 3RA11 10-0KA15-1AP0 | 3RA12 10-0KA15-0AP0 | 3RA11 10-1AA15-1AP0 | 3RA12 10-1AA15-0AP0 | | | | | | |
| 0.55 | 1.5 | 1.1 – 1.6 | 3RA11 10-1AA15-1AP0 | 3RA12 10-1AA15-0AP0 | 3RA11 10-1BA15-1AP0 | 3RA12 10-1BA15-0AP0 | | | | | | |
| 0.75 | 1.9 | 1.4 – 2 | 3RA11 10-1BA15-1AP0 | 3RA12 10-1BA15-0AP0 | | | | | | | | |
| 0.75 | 1.9 | 1.8 – 2.5 | 3RA11 20-1CA24-0AP0 | 3RA12 20-1CB24-0AP0 | 3RA11 10-1CA15-1AP0 | 3RA12 10-1CA15-0AP0 | S00 | Coordination type 2 also fulfills coordination type 1 | Coordination type 2 also fulfills coordination type 1 | S00 |  | |
| 1.1 | 2.7 | 2.2 – 3.2 | 3RA11 20-1DA24-0AP0 | 3RA12 20-1DB24-0AP0 | 3RA11 10-1DA15-1AP0 | 3RA12 10-1DA15-0AP0 | | | | | | |
| 1.5 | 3.6 | 2.8 – 4 | 3RA11 20-1EA24-0AP0 | 3RA12 20-1EB24-0AP0 | 3RA11 10-1EA15-1AP0 | 3RA12 10-1EA15-0AP0 | | | | | | |
| 1.5 | 3.6 | 3.5 – 5 | 3RA11 20-1FA24-0AP0 | 3RA12 20-1FB24-0AP0 | 3RA11 10-1FA15-1AP0 | 3RA12 10-1FA15-0AP0 | | | | | | |
| 2.2 | 5.2 | 4.5 – 6.3 | 3RA11 20-1GA24-0AP0 | 3RA12 20-1GB24-0AP0 | 3RA11 10-1GA15-1AP0 | 3RA12 10-1GA15-0AP0 | | | | | | |
| 3 | 6.8 | 5.5 – 8 | 3RA11 20-1HA24-0AP0 | 3RA12 20-1HB24-0AP0 | 3RA11 10-1HA15-1AP0 | 3RA12 10-1HA15-0AP0 | | | | | | |
| 4 | 9 | 7 – 10 | 3RA11 20-1JA26-0AP0 | 3RA12 20-1JB26-0AP0 | 3RA11 10-1JA16-1AP0 | 3RA12 10-1JA16-0AP0 | | | | | | |
| 5.5 | 11.5 | 9 – 12.5 | 3RA11 20-1KA26-0AP0 | 3RA12 20-1KB26-0AP0 | 3RA11 10-1KA17-1AP0 | 3RA12 10-1KA17-0AP0 | | | | | | |
| 7.5 | 15.5 | 11 – 16 | 3RA11 20-4AA26-0AP0 | 3RA12 20-4AB26-0AP0 | 3RA11 20-4AA25-0AP0 | 3RA12 20-4AB25-0AP0 | | | | | | |
| 7.5 | 15.5 | 14 – 20 | 3RA11 20-4BA26-0AP0 | 3RA12 20-4BB26-0AP0 | 3RA11 20-4BA25-0AP0 | 3RA12 20-4BB25-0AP0 | | | | | | |
| 11 | 22 | 17 – 22 | 3RA11 20-4CA26-0AP0 | 3RA12 20-4CB26-0AP0 | 3RA11 20-4CA26-0AP0 | 3RA12 20-4CA26-0AP0 | | | | | | |
| 11 | 22 | 20 – 25 | | | 3RA11 20-4DA26-0AP0 | 3RA12 20-4DB26-0AP0 | S0 | Coordination type 2 also fulfills coordination type 1 | Coordination type 2 also fulfills coordination type 1 | S0 |  | |
| 11 | 22 | 18 – 25 | 3RA11 30-4DB34-0AP0 | | | | | | | | | |
| 15 | 29 | 22 – 32 | 3RA11 30-4EB34-0AP0 | | | | | | | | | |
| 18.5 | 35 | 28 – 40 | 3RA11 30-4FB35-0AP0 | | | | | | | | | |
| 22 | 41 | 36 – 45 | 3RA11 30-4GB36-0AP0 | | | | | | | | | |
| 22 | 41 | 40 – 50 | 3RA11 30-4HB36-0AP0 | | | | S2 | | | | S2 | |

Infeed system



- ① 3-phase busbar with infeed at the left, 3RV19 17-1A
- ② 3-phase busbar to expand the system, 3RV19 17-4B
- ③a Extension plug, 3RV19 17-5BA00
- ③b Wider extension plug, 3RV19 17-5E
- ④ End cover, 3RV19 17-6A
- ⑤ Connection plug, 3RV19-17-5AA00
- ⑥ Contactor socket, 3RV19-17-AA00
- ⑦ Terminal block, 3RV19-17-5D



3-phase busbars

- ① 3-phase busbars with infeed left
incl. 3RV19 17-6A end cover
- 3-phase busbars with infeed right
incl. 3RV19 17-6A end cover
- ② 3-phase busbars to expand the system
incl. 3RV19 17-5BA00 expansion connector
- 3-phase busbars to expand the system
incl. 3RV19 17-5BA00 expansion connector

Connection plug

| Version | Order No. |
|---|-----------------------|
| ⑤ Connection plug to connect to the circuit breaker | |
| 50, screw | 1 unit 3RV19 17-5CA00 |
| 500, spring-loaded terminals | 10 units 3RV19 17-5C |
| 50, screw | 1 unit 3RV19 17-5AA00 |
| | 10 units 3RV19 17-5A |
| | 1 unit 3RV19 27-5AA00 |
| | 10 units 3RV19 27-5A |

Accessories

| | |
|--|-----------------------|
| ⑥ Contactor socket to configure direct or reversing starters | 1 unit 3RV19 17-7AA00 |
| 10 units 3RV19 17-7A | |
| ⑦ Terminal block to integrate 1, 2 or 3-pole components | 3RV19 17-5D |

Mounting rail to integrate other devices into the system, e.g. 5SY cable protection circuit breakers

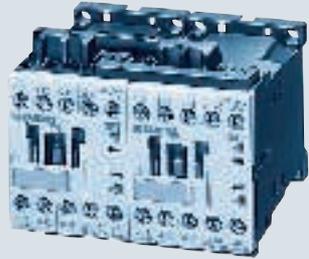
| | |
|-------------------------|-------------|
| ③b Wider extension plug | 3RV19 17-5E |
|-------------------------|-------------|

Spare parts

| | |
|---------------------------------|----------------|
| ③a Expansion plug as spare part | 3RV19 17-5BA00 |
| ④ End cover as spare part | 3RV19 17-6A |

Reversing combinations and Star-delta combinations

Reversing combinations up to 45 kW

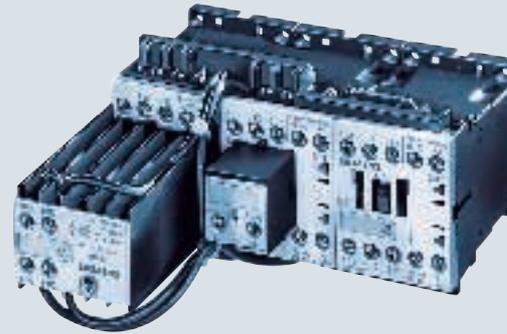


S00

Reversing combinations

| 3-phase motor AC-3/400 V | | Size | Pre-wired and tested for 230 V AC, 50/60 Hz Order No. |
|-----------------------------|-----|------|---|
| [kW] | [A] | | |
| 5.5 | 7 | S00 | 3RA13 15-8XB30-1AP0 |
| | 12 | S0 | 3RA13 24-8XB30-1AL2 |
| 7.5 | 9 | S00 | 3RA13 16-8XB30-1AP0 |
| | 17 | S0 | 3RA13 25-8XB30-1AL2 |
| 11 | 12 | S00 | 3RA13 17-8XB30-1AP0 |
| | 25 | S0 | 3RA13 26-8XB30-1AL2 |
| 15 | 32 | S2 | 3RA13 34-8XB30-1AL2 |
| 18.5 | 40 | S2 | 3RA13 35-8XB30-1AL2 |
| 22 | 50 | S2 | 3RA13 36-8XB30-1AL2 |
| 30 | 65 | S3 | 3RA13 44-8XB30-1AL2 |
| 37 | 37 | S3 | 3RA13 45-8XB30-1AL2 |
| 45 | 95 | S3 | 3RA13 46-8XB30-1AL2 |

Star-delta combinations up to 75 kW



S00

Contactors combinations

| 3-phase motor AC-3/400 V | | Size | Pre-wired and tested for 230 V AC, 50/60 Hz Order No. |
|-----------------------------|-------|-------------|---|
| [kW] | [A] | | |
| 5.5 | 12 | S00-S00-S00 | 3RA14 15-8XB21-1AP0 |
| 7.5 | 17 | S00-S00-S00 | 3RA14 16-8XB21-1AP0 |
| 11 | 25 | S0-S0-S0 | 3RA14 23-8XC21-1AL2 |
| 15/18.5 | 32/40 | S0-S0-S0 | 3RA14 25-8XC21-1AL2 |
| 22/30 | 50/65 | S2-S2-S0 | 3RA14 34-8XC21-1AL2 |
| 37 | 80 | S2-S2-S2 | 3RA14 35-8XC21-1AL2 |
| 45 | 86 | S2-S2-S2 | 3RA14 36-8XC21-1AL2 |
| 55 | 115 | S3-S3-S2 | 3RA14 44-8XC21-1AL2 |
| 75 | 150 | S3-S3-S2 | 3RA14 45-8XC21-1AL2 |

Completely assembled load feeders

Safety-related load feeders

| 3-phase motor AC-3/400 V | | Setting range, thermal overload release | Coordination type 2 230 V AC Category 3 according to EN 954-1 | Coordination type 2 24 V DC | Size |
|-----------------------------|------|--|--|--------------------------------|------|
| [kW] | [A] | | | | |
| 0.04 | 0.16 | 0.11 – 0.16 | 3RA71 01-0AA17-0AL2 | 3RA71□-0AA17-0AB4 | S00 |
| 0.06 | 0.2 | 0.14 – 0.2 | 3RA71 01-0BA17-0AL2 | 3RA71□-0BA17-0AB4 | |
| 0.06 | 0.2 | 0.18 – 0.25 | 3RA71 01-0BA17-0AL2 | 3RA71□-0BA17-0AB4 | |
| 0.09 | 0.3 | 0.22 – 0.32 | 3RA71 01-0DA17-0AL2 | 3RA71□-0DA17-0AB4 | |
| 0.09 | 0.3 | 0.28 – 0.4 | 3RA71 01-0EA17-0AL2 | 3RA71□-0EA17-0AB4 | |
| 0.12 | 0.4 | 0.35 – 0.5 | 3RA71 01-0FA17-0AL2 | 3RA71□1-0FA17-0AB4 | |
| 0.18 | 0.6 | 0.45 – 0.63 | 3RA71 01-0GA17-0AL2 | 3RA71□1-0GA17-0AB4 | |
| 0.18 | 0.6 | 0.55 – 0.8 | 3RA71 01-0HA17-0AL2 | 3RA71□1-0HA17-0AB4 | |
| 0.25 | 0.8 | 0.7 – 1 | 3RA71 01-0JA17-0AL2 | 3RA71□1-0JA17-0AB4 | |
| 0.37 | 1.1 | 0.9 – 1.25 | 3RA71 01-0KA17-0AL2 | 3RA71□1-0KA17-0AB4 | |
| 0.55 | 1.5 | 1.1 – 1.6 | 3RA71 01-1AA17-0AL2 | 3RA71□1-1AA17-0AB4 | S0 |
| 0.75 | 1.9 | 1.4 – 2 | 3RA71 01-1BA17-0AL2 | 3RA71□1-1BA17-0AB4 | |
| 0.75 | 1.9 | 1.8 – 2.5 | 3RA71 02-1CA26-0AL2 | 3RA71□2-1CA26-0AB4 | |
| 1.1 | 2.7 | 2.2 – 3.2 | 3RA71 02-1DA26-0AL2 | 3RA71□2-1DA26-0AB4 | |
| 1.5 | 3.6 | 2.8 – 4 | 3RA71 02-1EA26-0AL2 | 3RA71□2-1EA26-0AB4 | |
| 1.5 | 3.6 | 3.5 – 5 | 3RA71 02-1FA26-0AL2 | 3RA71□2-1FA26-0AB4 | |
| 2.2 | 5.2 | 4.5 – 6.3 | 3RA71 02-1GA26-0AL2 | 3RA71□2-1GA26-0AB4 | |
| 3 | 6.8 | 5.5 – 8 | 3RA71 02-1HA26-0AL2 | 3RA71□2-1HA26-0AB4 | |
| 4 | 9 | 7 – 10 | 3RA71 02-1JA26-0AL2 | 3RA71□2-1JA26-0AB4 | |
| 5.5 | 11.5 | 9 – 12.5 | 3RA71 02-1KA26-0AL2 | 3RA71□2-1KA26-0AB4 | |
| 7.5 | 15.5 | 11 – 16 | 3RA71 02-4AA26-0AL2 | 3RA71□2-4AA26-0AB4 | |
| 7.5 | 15.5 | 14 – 20 | 3RA71 02-4BA26-0AL2 | 3RA71□2-4BA26-0AB4 | |
| 11 | 22 | 17 – 22 | 3RA71 02-4CA26-0AL2 | 3RA71□2-4CA26-0AB4 | |
| 11 | | without | 3RA71 00-5AA26-0AL2 | 3RA71□0-5AA26-0AB4 | |

Circuit breaker
(contactor-safety
combination)

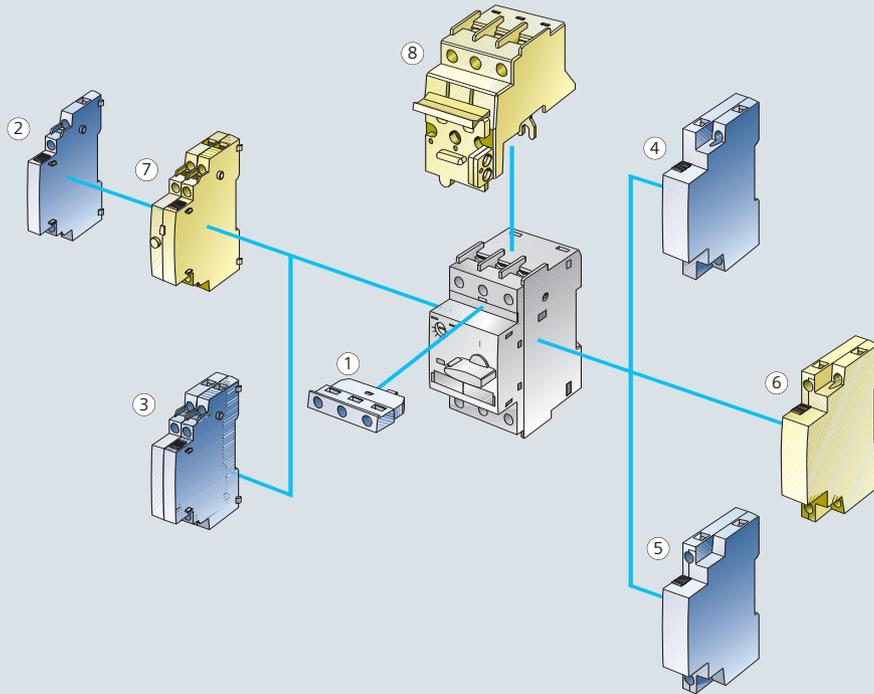
- Safety electronics as basic unit up to Category 3
- Safety electronics as basic unit up to Category 4
- Safety electronics as expansion unit
- Safety electronics as expansion unit, time delay 0.05–3 s
- Safety electronics as expansion unit, time delay 0.05–30 s



S00

Accessories

Circuit breakers



| | Version | For Size | Order No. |
|--|-------------------------|-------------------|---|
| ① Transverse auxiliary switch | 1CO 1NO + 1NC 2NO | S00, S0, S2, S3 | 3RV19 01-1D 3RV19 01-1E 3RV19 01-1F |
| ② Transverse auxiliary switch with 2 contacts | 1NO + 1NC 2NO 2NC | S00, S0, S2, S3 | 3RV19 01-1A 3RV19 01-1B 3RV19 01-1C |
| ③ Transverse auxiliary switch with 4 contacts | 2NO + 2NC | S00, S0, S2, S3 | 3RV19 01-1J |
| ④ Shunt release | 230 V AC | S00, S0, S2, S3 | 3RV19 02-1DP0 |
| ⑤ Undervoltage release | 230 V AC | S00, S0, S2, S3 | 3RV19 02-1AP0 |
| ⑥ Undervoltage release with leading auxiliary switches | 230 V AC | S00 S0, S2, S3 | 3RV19 12-1CP0 3RV19 22-1CP0 |
| ⑦ Signaling switch | | S0, S2, S3 | 3RV19 21-1M |
| ⑧ Isolator module | | S0 S2 | 3RV19 28-1A 3RV19 38-1A |

Version

For Size

Order No.

Insulated 3-phase busbar systems



3-phase busbars, modular spacing 45 mm
for 2 switches
for 3 switches
for 4 switches
for 5 switches

S00, S0

3RV19 15-1AB
3RV19 15-1BB
3RV19 15-1CB
3RV19 15-1DB

Connector
from S0 to S00

S00, S0

3RV19 15-5DB



3-phase busbars, modular spacing 55 mm
for 2 switches
for 3 switches
for 4 switches

S2

3RV19 35-1A
3RV19 35-1B
3RV19 35-1C



3-phase line-side terminal,
connection from the top

S00
S0
S2

3RV19 15-5A
3RV19 25-5AB
3RV19 35-5A

Door-coupling rotary operating mechanisms



Black
Extension shaft
Extension shaft
with support bracket

130 mm
330 mm

S0, S2, S3

3RV19 26-0B
3RV19 26-0K

Moulded-plastic enclosure for wall mounting



With actuator diaphragm

width 54 mm
(e.g. switch + transverse auxiliary switch)
width 72 mm
(e.g. switch + transverse auxiliary switch +
auxiliary release)

S00

3RV19 13-1CA00

S00

3RV19 13-1DA00



With rotary operating mechanism

width 54 mm
(e.g. switch + transverse auxiliary switch)
width 72 mm
(e.g. switch + transverse auxiliary switch +
auxiliary release)

S0

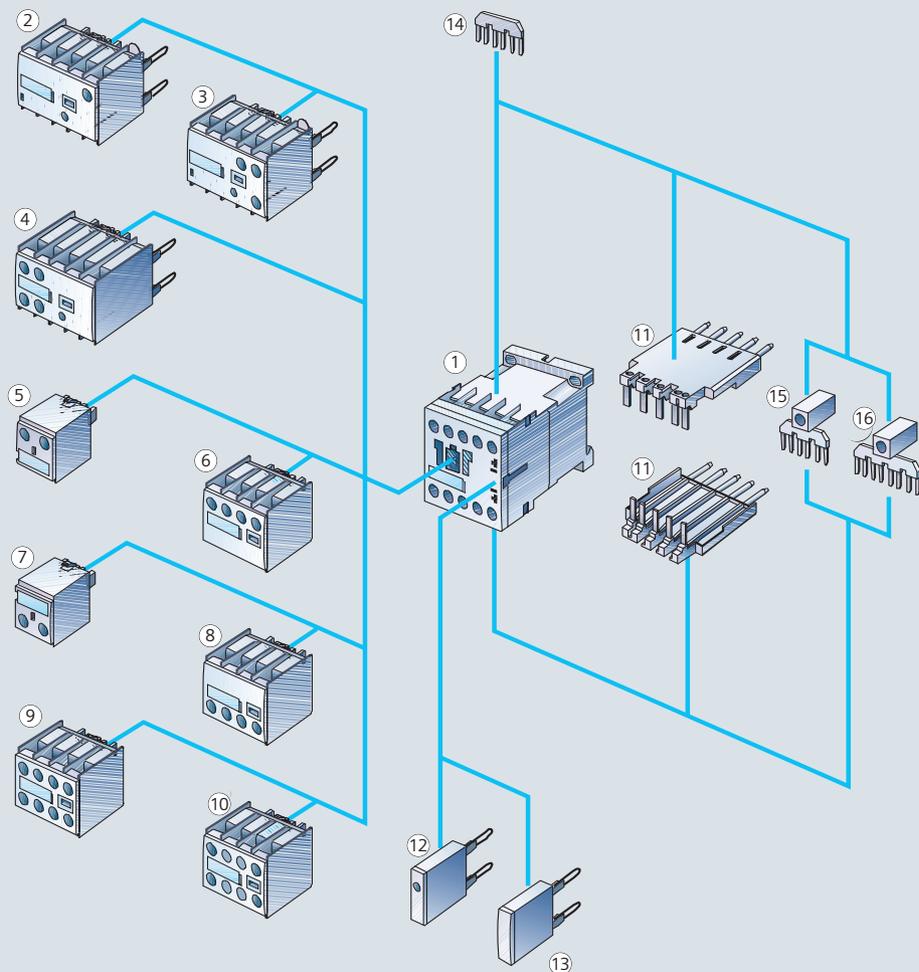
3RV19 23-1CA00

S0

3RV19 23-1DA00

Accessories

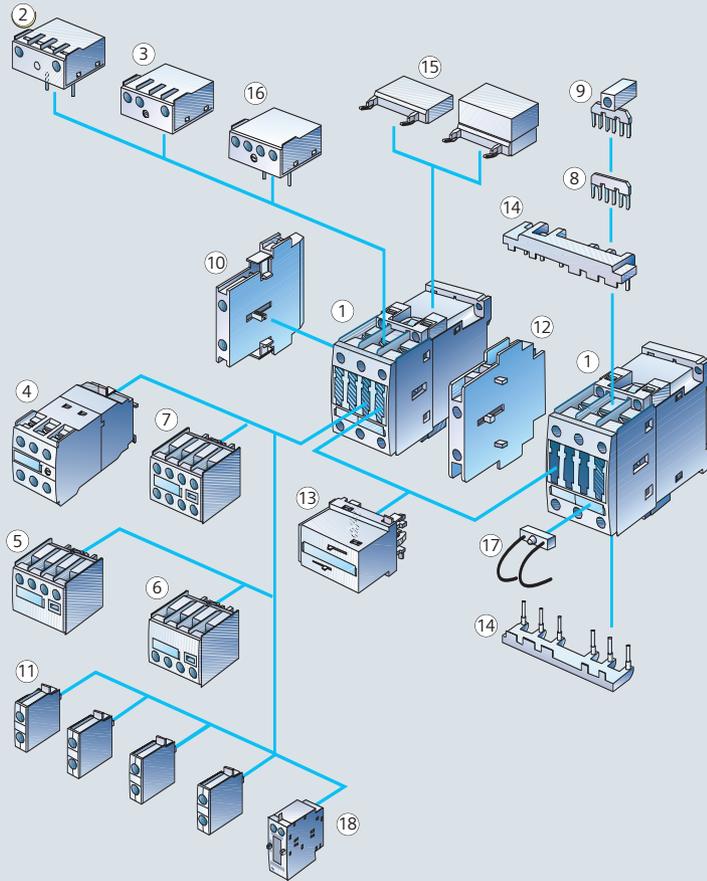
Contactors S00



| | Version | Order No. |
|--|------------------------------------|----------------------------------|
| ① Contactor (example) control supply voltage | 4 kW/400 V, 1NO 230 V, 50/60 Hz | 3RT10 16-1AP01 |
| ② Solid-state time-delay block ON delay | 0.5 – 10 s | 3RT19 16-2CH21 |
| ③ Solid-state time-delay block OFF delay | 0.5 – 10 s | 3RT19 16-2DH21 |
| ④ Auxiliary switch block, solid-state time-delay ON delay | 0.5 – 10 s | 3RT19 16-2ED21 |
| OFF delay | 0.5 – 10 s | 3RT19 16-2FL21 |
| ⑤ 1-pole auxiliary switch block, cable entry from above | 1NO 1NC | 3RH19 11-1AA10 3RH19 11-1AA01 |
| ⑥ 2-pole auxiliary switch block, cable entry from above | 1NO + 1NC | 3RH19 11-1LA11 |
| ⑦ 1-pole auxiliary switch block, cable entry from below | 1NO 1NC | 3RH19 11-1BA10 3RH19 11-1BA01 |
| ⑧ 2-pole auxiliary switch block, cable entry from below | 1NO + 1NC | 3RH19 11-1MA11 |
| ⑨ 4-pole auxiliary switch block, (terminal designations acc. to DIN EN 50 012) | 2NO + 2NC | 3RH19 11-1HA22 |
| ⑩ 2-pole auxiliary switch block, solid-state compatible design (acc. to DIN EN 50 005) | 1NO + 1NC | 3RH19 11-1NF11 |
| ⑪ Solder pin adapter for the basic unit | for 4 contactors (package) | 3RT19 16-4KA1 |
| ⑫ Surge suppressor with LED (varistor) | 127 – 240 V AC 12 – 24 V DC | 3RT19 16-1JL00 3RT19 16-1JJ00 |
| ⑬ Surge suppressor without LED (varistor) | 127 – 240 V AC 24 – 70 V DC | 3RT19 16-1BD00 3RT19 16-1BB00 |
| ⑭ Link for paralleling, (star jumper), 3-pole, without terminal | – | 3RT19 16-4BA31 |
| ⑮ Link for paralleling, 3-pole, with terminal | – | 3RT19 16-4BB31 |
| ⑯ Link for paralleling, 4-pole, with terminal | – | 3RT19 16-4BB41 |

Accessories

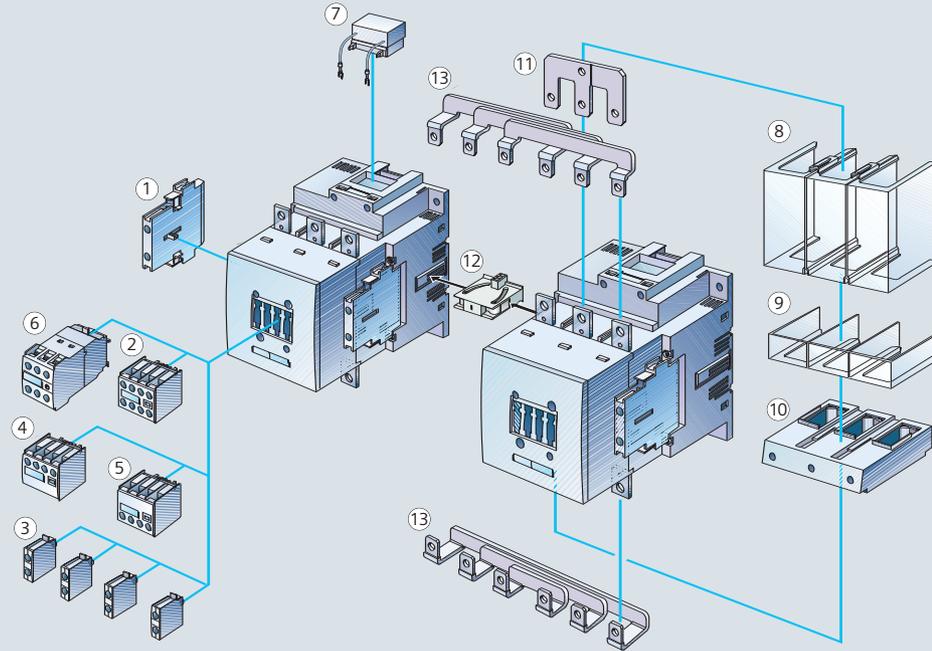
Contactors S0 – S3



| | Version | For Size | Order No. |
|---|------------------------------------|----------------------------|--|
| ① Contactor, size S0 (example) control supply voltage | 7.5 kW/400 V 230 V, 50 Hz | | 3RT10 25-1AP00 |
| For sizes S0 to S3: | | | |
| ② Solid-state time-delay block, ON delay | 0.5 – 10 s | | 3RT19 26-2CH21 |
| ③ Solid-state time-delay block, OFF delay | 0.5 – 10 s | | 3RT19 26-2DH21 |
| ④ Auxiliary switch block, solid-state time-delay ON delay OFF delay | 0.5 – 10 s 0.5 – 10 s | | 3RT19 26-2ED21 3RT19 26-2FL21 |
| ⑤ 2-pole auxiliary switch block, cable entry from above | 1NO + 1NC | | 3RH19 21-1LA11 |
| ⑥ 2-pole auxiliary switch block, cable entry from below | 1NO + 1NC | | 3RH19 21-1MA11 |
| ⑦ 4-pole auxiliary switch block (terminal designations acc. to DIN EN 50 012) | 2NO + 2NC | | 3RH19 21-1HA22 |
| ⑧ Link for paralleling (star jumper), 3-pole, without terminal | – | S0 S2 S3 | 3RT19 26-4BA31 3RT19 36-4BA31 3RT19 46-4BA31 |
| ⑨ Link for paralleling, 3-pole, with terminal | – | S0 S2 S3 | 3RT19 26-4BB31 3RT19 36-4BB31 3RT19 46-4BB31 |
| ⑩ 2-pole auxiliary switch block, can be laterally mounted (left or right) (terminal designations acc. to DIN EN 50012) | 1NO + 1NC | S0 – S3 | 3RH19 21-1DA11 |
| ⑪ Single-pole auxiliary switch block (up to 4 can be snapped on) | 1NO 1NC | S0 – S3 S0 – S3 | 3RH19 21-1CA10 3RH19 21-1CA01 |
| ⑫ Mechanical interlock, can be laterally mounted | – | S0 – S3 | 3RA19 24-2B |
| ⑬ Mechanical interlock, can be mounted at the front | – | S0 – S3 | 3RA19 24-1A |
| ⑭ Wiring connectors at the top and bottom (reversing operation) – plugging | – – – | S0 S2 S3 | 3RA19 23-2A 3RA19 33-2A 3RA19 43-2A |
| ⑮ Surge suppressor (varistors), can be mounted at the top or bottom | – | S0 – S3 | 3RT19 26-1BD00 |
| ⑯ Interface for mounting directly onto the contactor coil | – | S0 – S3 | 3RT19 26-3AB31 |
| ⑰ LED module to indicate contactor operation | – | S0 – S3 | 3RT19 26-1QT00 |
| ⑱ Mechanical latching | 24 AC/DC 110 AC/DC 230 AC/DC | S0, S2 S0, S2 S0, S2 | 3RT19 26-3AB31 3RT19 26-3AF31 3RT19 26-3AP31 |

Accessories

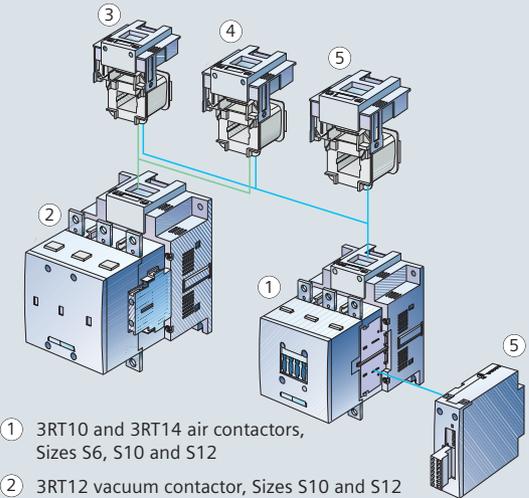
Contactors S6 – S12



| | Version | Order No. |
|--|---|---|
| ① 2-pole auxiliary switch block, can be laterally mounted – 2 nd block (left/right), DIN EN 50 012 – 2 nd block (left/right), DIN EN 50 005 | 1NO + 1NC 1NO + 1NC 2NO | 3RH19 21-1JA11 3RH19 21-1KA11 3RH19 21-1KA20 |
| ② 4-pole auxiliary switch block, can be mounted at the front – with classification No. 5...8, DIN EN 50 012 2NO + 2NC – with classification No. 1...4, DIN EN 50 012 2NO + 2NC | | 3RH19 21-1XA22-0MA0 3RH19 21-1HA22 |
| ③ Single-pole auxiliary switch block, can be mounted at the front | 1NO 1NC | 3RH19 21-1CA10 3RH19 21-1CA01 |
| ④ 2-pole auxiliary switch block, can be mounted at the front cable entry from above, DIN EN 50 005 | 1NO + 1NC | 3RH19 21-1LA11 |
| ⑤ 2-pole auxiliary switch block, can be mounted at the front cable entry from below, DIN EN 50 005 | 1NO + 1NC | 3RH19 21-1MA11 |
| ⑥ Auxiliary switch block, solid-state time-delay – ON delay, 200–240 V AC – OFF delay, 200–240 V AC | 1NO + 1NC 0 ... 10 s 0.5 ... 10 s | 3RH19 26-2ED21 3RH19 26-2FL21 |

| | Version | Order No. |
|--|---|--|
| ⑦ RC element, 127 ... 240 V AC | | 3RT19 56-1CD00 |
| ⑧ Connection cover for busbar connection | for S6 for S10/S12 | 3RT19 56-4EA1 3RT19 66-4EA1 |
| ⑨ Connection cover for box terminals | for S6 for S10/S12 | 3RT19 56-4EA2 3RT19 66-4EA2 |
| ⑩ Box terminal block – for S6 – for S10/S12 | to 70 mm ² to 120 mm ² to 240 mm ² | 3RT19 55-4G 3RT19 56-4G 3RT19 66-4G |
| ⑪ Link for paralleling | for S6 for S10/S12 | 3RT19 56-4BA31 3RT19 66-4BA31 |
| ⑫ Mechanical interlock | | 3RA19 54-2A |
| ⑬ Wiring connectors, top and bottom (reversing operation) plugging | for S6 for S10 for S12 | 3RA19 53-2A 3RA19 63-2A 3RA19 73-2A |

Operating mechanism types



- ① 3RT10 and 3RT14 air contactors, Sizes S6, S10 and S12
- ② 3RT12 vacuum contactor, Sizes S10 and S12
- ③ Withdrawable coils for contactors with conventional operating mechanism 3RT1...-A..
- ④ Withdrawable coils for contactors with electronic operating mechanism 3RT1...-N..
- ⑤ Withdrawable coils and laterally mounted module (can be plugged in) for contactors with electronic operating mechanism and remaining lifetime signal 3RT1...-P.. and 2RT1...-Q

| Size | 3-phase motor AC-3/400 V | Contactor without coil | Withdrawable coil for operating mechanism | |
|------|--------------------------|------------------------|---|--------------------------------|
| | | | conventional control supply voltage 220 ... 240 V AC/DC | electronic 200 ... 277 V AC/DC |
| | kW | Order No. | Order No. | Order No. |
| S6 | 55 | 3RT10 54-1LA06 | 3RT19 55-5AP31 | 3RT19 55-5NP31 |
| | 75 | 3RT10 55-6LA06 | | |
| | 90 | 3RT10 56-6LA06 | | |
| S10 | 110 | 3RT10 64-6LA06 | 3RT19 65-5AP31 | 3RT19 65-5NP31 |
| | 132 | 3RT10 65-6LA06 | | |
| | 160 | 3RT10 66-6LA06 | | |
| S12 | 200 | 3RT10 75-6LA06 | 3RT19 75-5AP31 | 3RT19 75-5NP31 |
| | 250 | 3RT10 76-6LA06 | | |

Accessories

Accessories for 3RU11 thermal overload relays and 3RB20/21 solid-state overload relays



| Version | For Size | Order No. |
|--|----------|---------------|
| Adapter for single mounting for 3RB20/21 to separately mount the overload relay, screw and snapping onto Rails TH 35 | S00 | 3RB29 13-0AA1 |
| | S0 | 3RB29 23-0AA1 |



| Version | For Size | Order No. |
|---|----------|----------------|
| Connecting carrier for individual mounting for 3RU11 for separately mounting the overload relay, screwed and snapped onto TH35 mounting rails. Size S3 also for a TH 75 mounting rail | S00 | 3RU19 16-3AA01 |
| | S0 | 3RU19 26-3AA01 |
| | S2 | 3RU19 36-3AA01 |
| | S3 | 3RU19 46-3AA01 |

Mechanical RESET for 3RU11 und 3RB20/21 comprising:

- | | | |
|---|----------------|----------------|
| ① Resetting plunger, holder and former | S00 to S10/S12 | 3RU19 00-1A |
| ② Pushbutton with extended stroke (12 mm), IP65, 22 mm diameter | S00 to S10/S12 | 3SB30 00-0EA11 |

| | | |
|--|-----------------|---------|
| Extension actuator to equalize the clearance between a pushbutton and the release button of the relay. | S00 bis S10/S12 | 3SX1335 |
|--|-----------------|---------|

Cable release with holder for RESET for 3RU11 und 3RB20/21

| | | | |
|----------------------------|---------------|----------------|-------------|
| for holes 6.5 mm diameter | length 400 mm | S00 to S10/S12 | 3RU19 00-1B |
| in the panel; | length 600 mm | S00 to S10/S12 | 3RU19 00-1C |
| max. panel thickness, 8 mm | | | |



| Version | For Size | Order No. |
|---|----------------|------------|
| Sealable cover for 3RB20/21, transparent to cover the setting elements for 3RB20/21 | S00 to S10/S12 | 3RB29 84-0 |

Terminal Covers for 3RU11 and 3RB20/21

| | | |
|---|---------|---------------|
| Cover for cable lug and busbar connection | S3 | 3RT19 46-4EA1 |
| | S6 | 3RT19 56-4EA1 |
| | S10/S12 | 3RT19 66-4EA1 |
| Cover for box terminals | S2 | 3RT19 36-4EA2 |
| | S3 | 3RT19 46-4EA2 |
| | S6 | 3RT19 56-4EA2 |
| | S10/S12 | 3RT19 66-4EA2 |
| Cover for the screw connection between the contactor and overload relay without box terminals (1x is required for each combination) | S6 | 3RT19 56-4EA3 |
| | S10/S12 | 3RT19 66-4EA3 |



Box terminal block

| | | | |
|-----------------------------|------------------------|---------|-------------|
| for round and ribbon cables | to 70 mm ² | S6 | 3RT19 55-4G |
| | to 120 mm ² | S6 | 3RT19 56-4G |
| | to 240 mm ² | S10/S12 | 3RT19 66-4G |



Enclosures for motor starters

| 3-phase motor AC-3/400 V [kW] | Enclosure for direct starters | Size | Order No. | Components required | Qty. | |
|-------------------------------------|---|--------|--------------|---|----------------------------|---|
| 5.5 | Moulded-plastic enclosure for wall mounting IP65 degree of protection with actuator elements | S00 | 3RE1913-1CB1 | Contactor with integrated auxiliary switch 1NO | 3RT10 1.-....1 | 1 |
| | | | | Thermal or solid-state overload relay | 3RU11 16 resp. 3RB10 16 | 1 |
| | | | | Lateral auxiliary switch 1NO/1NC | 3RH19 21-1DA11 | 1 |
| 11 | Moulded-plastic enclosure for wall mounting IP65 degree of protection with actuator elements | S0 | 3RE1923-1CB2 | Contactor | 3RT10 2 | 1 |
| | | | | Thermal or solid-state overload relay | 3RU11 26 resp. 3RB10 26 | 1 |
| | | | | Lateral auxiliary switch 1NO/1NC | 3RH19 21-1DA11 | 1 |
| 22 | Moulded-plastic enclosure for wall mounting IP65 degree of protection with actuator elements | S2 | 3RE1933-1CB3 | Contactor | 3RT10 3 | 1 |
| | | | | Thermal or solid-state overload relay | 3RU11 36 resp. 3RB10 36 | 1 |
| | | | | Lateral auxiliary switch 1NO/1NC | 3RH19 21-1DA11 | 1 |
| 3-phase motor AC-3/400 V [kW] | Enclosure for reversing starters | Size | Order No. | Components required | Qty. | |
| 5.5 | Moulded-plastic enclosure for wall mounting IP65 degree of protection with actuator elements | S00/S0 | 3RE1913-2CB3 | Contactor | 3RT10 1 | 2 |
| | | | | Wiring kit for reversing combination | 3RH19 13-2A | 1 |
| | | | | Thermal or solid-state overload relay | 3RU11 16 resp. 3RB10 16 | 1 |
| | | | | Auxiliary switch 1NO at the front | 3RH19 11-1BA10 | 2 |
| 11 | Moulded-plastic enclosure for wall mounting IP65 degree of protection with actuator elements | S00/S0 | 3RE1913-2CB3 | Contactor | 3RT10 2 | 2 |
| | | | | Wiring kit for reversing combination | 3RH19 23-2A | 1 |
| | | | | Mechanical interlock | 3RH19 24-2B | 1 |
| | | | | Thermal or solid-state overload relay | 3RU11 26 resp. 3RB10 26 | 1 |
| | | | | Auxiliary switch 1NO at the front | 3RH19 21-1CA10 | 2 |



Direct and reversing starters in enclosures are also available pre-configured. These include all of the necessary components and are pre-wired – with the exception of the overload relay. The overload relay should be selected corresponding to the application and must be separately ordered. For more detailed information, please refer to the Catalog.

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