Highly flexible system-based switching, protecting and starting.

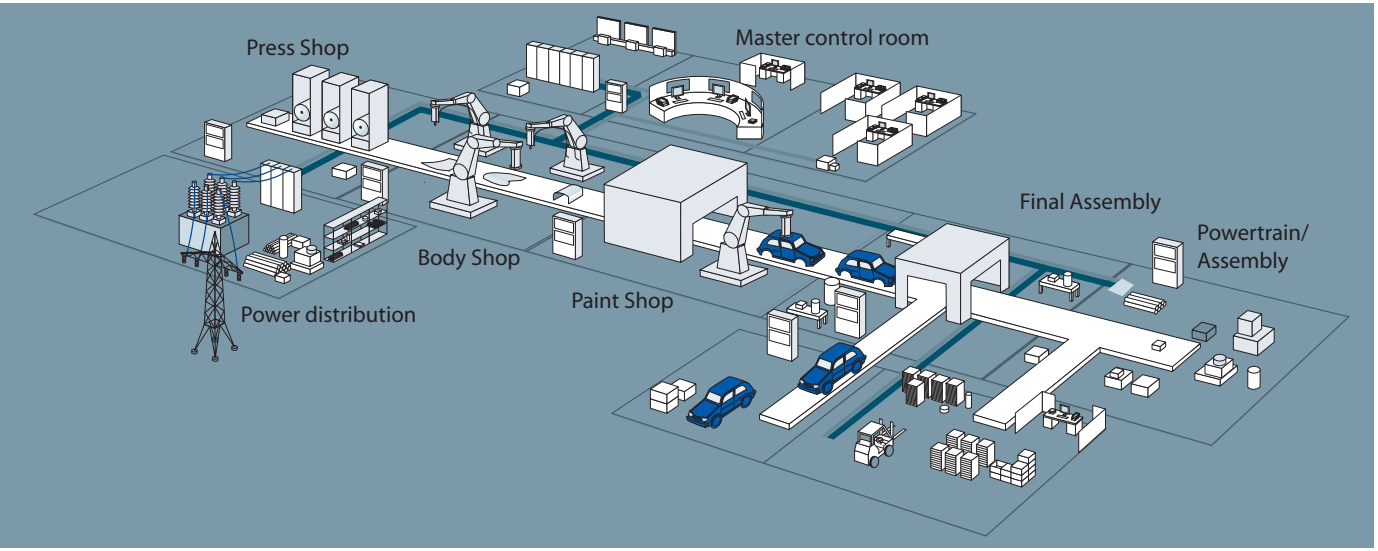
SIRIUS Modular System

SIRIUS

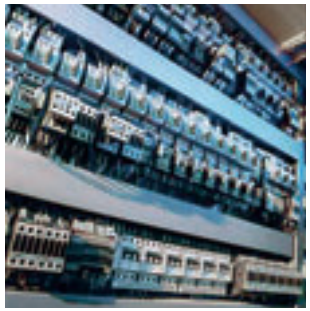
Answers for industry.

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



* star-delta

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/solid-state contactors and reversing 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

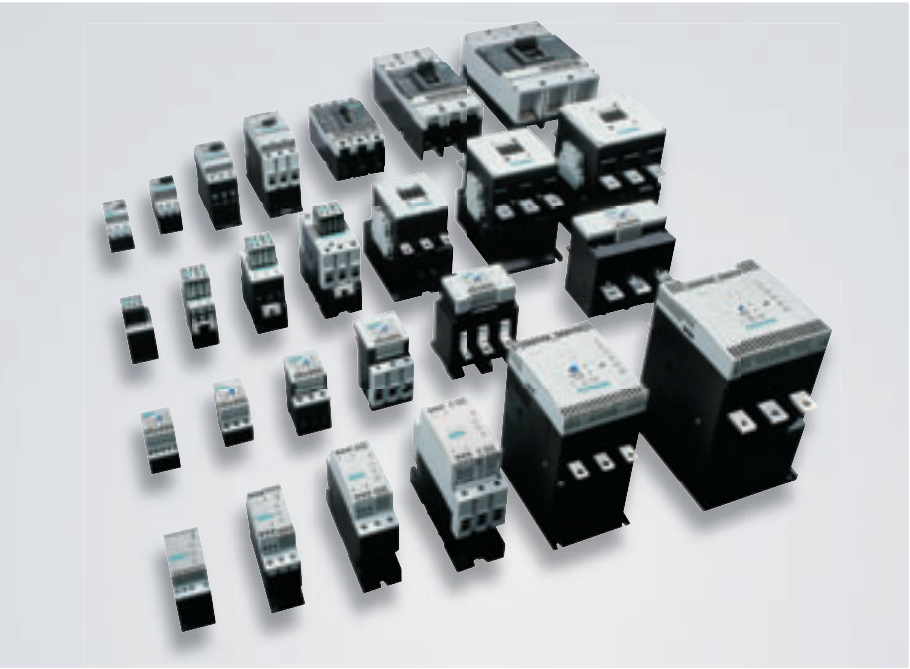
Reversing combinations up to 45 kW
Wye-delta* combinations up to 75 kW
Safety-related load feeders

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 modular SIRIUS 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.

* With high switching frequencies, we recommend application of the solid-state contactors / reversing contactors

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 been 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.

Competently mastering high switching frequencies: SIRIUS 3RF solid-state contactors

SIRIUS solid-state contactors (size S0) for motor switching are characterized by their virtually unlimited service life – even under harsh conditions and with high switching frequencies. The three-phase solid-state contactors switch motors up to 7.5 kW. A special reversing contactor version facilitates a continuous reversal of the rotational direction of motors up to 3 kW. The compact devices in 45 or 90 mm width can be combined with our circuit breakers (MSP) or solid-state overload relays – for the fast and easy assembly of fuseless and fused motor feeders.

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

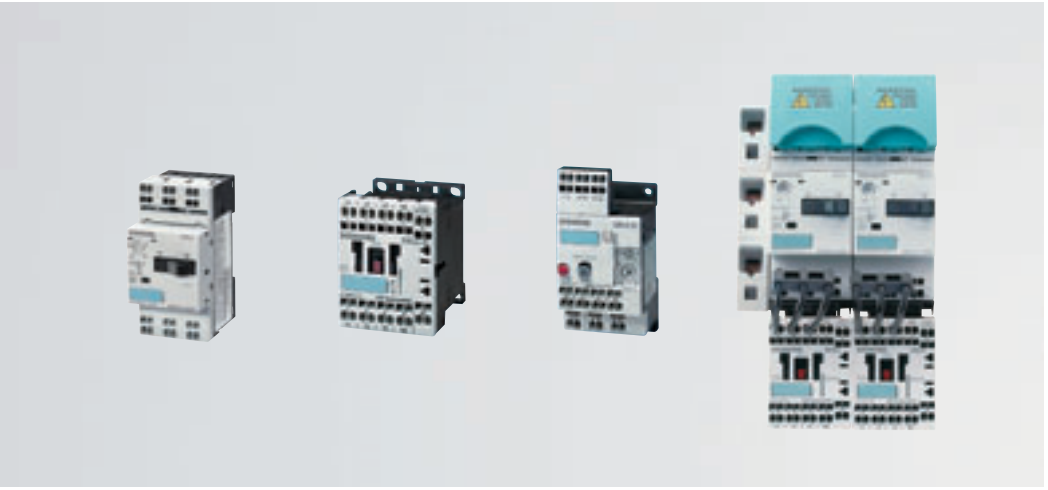
The overload relays of the SIRIUS family, available as either thermal or solid-state versions, protect loads connected to the main circuit, as a function of the current, and also protect other switching and protective devices in the particular load feeder. The solid-state SIRIUS 3RB2 overload relays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

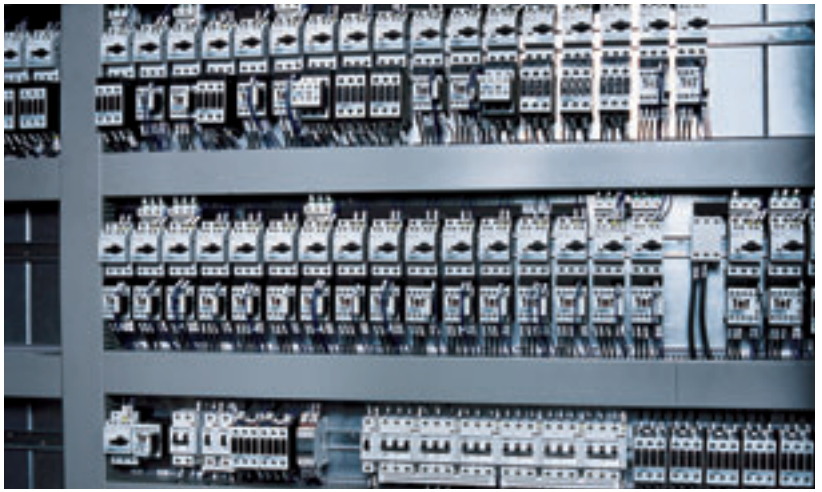
Gentle starting: SIRIUS 3RW soft starters

SIRIUS 3RW soft starters offer a seamless range that covers all standard and high-feature motor starting applications. They can be used in the widest range of applications to exploit the advantages of soft starting for the easy and efficient realization of optimum machine concepts. The compact two-phase-controlled 3RW30 facilitates efficient and space-saving soft starting up to 55 kW (with 400 V). The 3RW40 additionally offers soft stopping as well as integrated intrinsic device and motor protection functions, thanks to which an additional overload relay is unnecessary. Device versions up to a rating of 55 kW (with 400 V) are available: Thermistor motor protection evaluation, 400–600 V.

MSP: Motor Starter Protector

More about the SIRIUS Modular System.





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.

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. For high switching frequencies with solid-state contactors up to 7.5 kW.
- Reversing starters up to 11 kW – the matching combination for reversing motors. Solid-state reversing contactors can be used for applications with high switching frequencies up to 3 kW.
- Wye-delta* combinations up to 75 kW – the solution for running-up motors in stages.
- Soft starters – when soft starting and stopping is required (soft ramp-down as of 3RW40).
- Safe 3RA71 load feeders – pre-mounted, wired and certified for the highest safety categories. Real stars that reduce time and wiring mistakes.

* star-delta

User-friendly power infeed and distribution: SIRIUS infeed system 3RV19

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

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.

At a glance: The highlights of the SIRIUS infeed system

- Can be configured and expanded in a modular fashion as required
- Integration of motor feeders in screw-type and spring-loaded technology
- Maximum current capacity of 80 A
- Additional 1/2/3-pole components can be integrated using a terminal block
- Infeed, either from the right or left with max. 25 mm^2 for an increased degree of flexibility in the electrical cabinet
- Simple plug-in connection system saves time when mounting and installing
- Space-saving configuration thanks to the extremely compact design
- High vibration resistance, particularly with switching devices in spring-loaded technology
- Optional wiring duct between the feeders

Design Versions

Line- and feeder-orientated structure

Line-orientated structure:
circuit breaker and contactor are mounted separately from one another.

Feeder-orientated structure:
circuit breaker and contactor are mounted as a single unit.

Mounting option, wiring duct

Wiring duct between the modules.
Using the wider extension plug, a cable duct of 10 mm can be formed between the modules.
The circuit breakers and contactors can be connected from below so that a cable duct above the system is not necessary.

Mounting option with SIRIUS 3RA6 infeed system

The SIRIUS 3RA6 infeed system, which is mainly used for SIRIUS 3RA6 compact starters, can be connected with the SIRIUS 3RV19 infeed system via an expansion plug. This way, the advantages of both systems can be utilized.

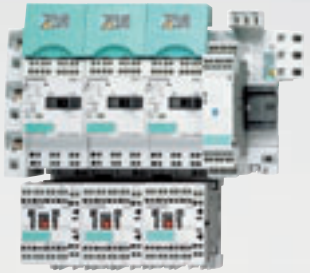
More information on the SIRIUS 3RA6 compact starter and the 3RA6 infeed system is available at www.siemens.com/compactstarter

Configuring reversing feeders

Reversing feeder, size S00, 90 mm wide

Reversing feeder, size S00, 45 mm wide

Versions with terminal block

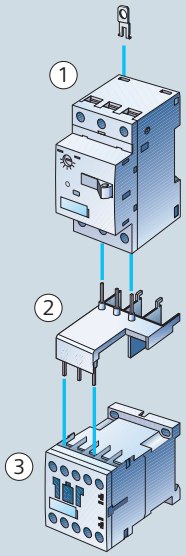


The terminal block is located at the end of the system. The cover is required in order to avoid arcing.

The terminal block is integrated in the slot for the extension plug in the middle of the system. The cover cap has been removed, the busbars are jumpered using the lyre-shaped contacts of the terminal block.

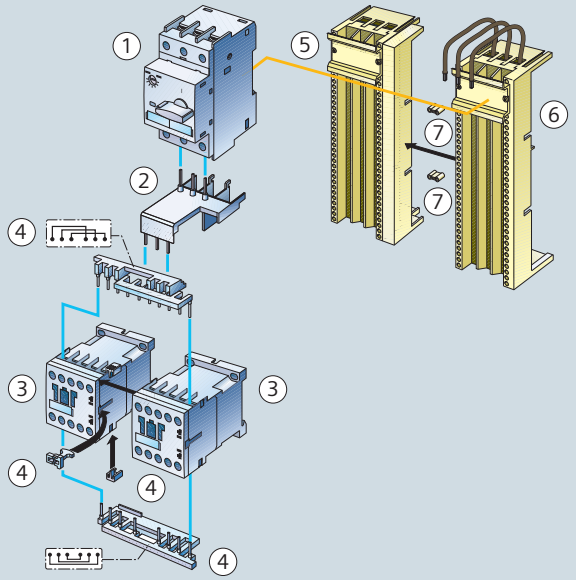
S00 design

Direct start



	Version	Order No.
(1) Size S00 circuit breaker		
(2) Link module	AC	**3RA1911-1AA00**
(3) Size S00 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 (4)

1 busbar adapter (6)

1 controlgear support (5)

2 link wedges (7)

	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 60 mm	**8US10 50-5AM00** **8US12 50-5AM00**
(6) Busbar adapter	40 mm 60 mm	**8US10 51-5DM07** **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		

2) For using tripping CLASS 20, please refer to the information contained in the "SIRIUS Engineering – Fuseless Load Feeders" configuration brochure and in the catalog

5) For the suitable circuit breaker connection module, please refer to the catalog

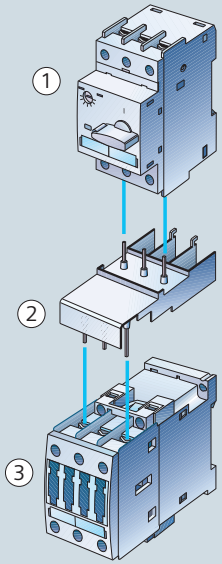
3-phase motor AC-3/400 V		Circuit breakers (MSP)		Contactors			Soft starters[5]			Overload relays			
		Setting range CLASS 10	Order No.	Control supply voltage	Auxiliary switches	Order No.	Control supply voltage	Rated operating *current Ie*	Order No.	Setting range CLASS 10	Thermal Order No.	Setting range	Electronic Order No.[2]
[kW]	[A]	[A]						[A]		[A]		[A]	
0.04	0.14	0.11 – 0.16	3RV10 11-0AA10							0.11 – 0.16	3RU11 16-0AB0		
0.06	0.2	0.14 – 0.2	3RV10 11-0BA10				110–230 V AC/DC			0.14 – 0.2	3RU11 16-0BB0		
0.06	0.2	0.18 – 0.25	3RV10 11-0CA10					3.6	3RW30 13-1BB14	0.18 – 0.25	3RU11 16-0CB0	0.1 – 0.4	3RB2□1□-□RB0
0.09	0.3	0.22 – 0.32	3RV10 11-0DA10				24 V AC/DC			0.22 – 0.32	3RU11 16-0DB0		
0.09	0.3	0.28 – 0.4	3RV10 11-0EA10					3.6	3RW30 13-1BB04	0.28 – 0.4	3RU11 16-0EB0		
0.12	0.4	0.35 – 0.5	3RV10 11-0FA10							0.35 – 0.5	3RU11 16-0FB0		
0.18	0.6	0.45 – 0.63	3RV10 11-0GA10							0.45 – 0.63	3RU11 16-0GB0		
0.18	0.6	0.55 – 0.8	3RV10 11-0HA10				110–230 V AC/DC			0.55 – 0.8	3RU11 16-0HB0	0.32 – 1.25	3RB2□1□-□NB0
0.25	0.8	0.7 – 1	3RV10 11-0JA10	230 V AC, 50/60 Hz	1NC	3RT10 15-1AP02		6.5	3RW30 14-1BB14	0.7 – 1	3RU11 16-0JB0		
0.37	1.1	0.9 – 1.25	3RV10 11-0KA10		1NO	3RT10 15-1AP01	24 V AC/DC			0.9 – 1.25	3RU11 16-0KB0		
0.55	1.5	1.1 – 1.6	3RV10 11-1AA10	24 V DC	1NC	3RT10 15-1BB42		6.5	3RW30 14-1BB04	1.1 – 1.6	3RU11 16-1AB0		
0.75	1.9	1.4 – 2	3RV10 11-1BA10		1NO	3RT10 15-1BB41				1.4 – 2	3RU11 16-1BB0		
0.75	1.9	1.8 – 2.5	3RV10 11-1CA10							1.8 – 2.5	3RU11 16-1CB0	1 – 4	3RB2□1□-□PB0
1.1	2.7	2.2 – 3.2	3RV10 11-1DA10				110–230 V AC/DC			2.2 – 3.2	3RU11 16-1DB0		
1.5	3.6	2.8 – 4	3RV10 11-1EA10					9	3RW30 16-1BB14	2.8 – 4	3RU11 16-1EB0		
1.5	3.6	3.5 – 5	3RV10 11-1FA10				24 V AC/DC			3.5 – 5	3RU11 16-1FB0		
2.2	5.2	4.5 – 6.3	3RV10 11-1GA10					9	3RW30 16-1BB04	4.5 – 6.3	3RU11 16-1GB0		
3	6.8	5.5 – 8	3RV10 11-1HA10							5.5 – 8	3RU11 16-1HB0		
4	9	7 – 10	3RV10 11-1JA10	230 V AC, 50/60 Hz	1NC	3RT10 16-1AP02				7 – 10	3RU11 16-1JB0	3 – 12	3RB2□1□-□SB0
					1NO	3RT10 16-1AP01	110–230 V AC/DC						
				24 V DC	1NC	3RT10 16-1BB42		12.5	3RW30 17-1BB14				
					1NO	3RT10 16-1BB41	24 V AC/DC						
5.5	11.5	9 – 12	3RV10 11-1KA10	230 V AC, 50/60 Hz	1NC	3RT10 17-1AP02		12.5	3RW30 17-1BB04	9 – 12	3RU11 16-1KB0		
					1NO	3RT10 17-1AP01							
				24 V DC	1NC	3RT10 17-1BB42							
					1NO	3RT10 17-1BB41							

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

* With ground-fault detection (activatable) and electrical remote reset

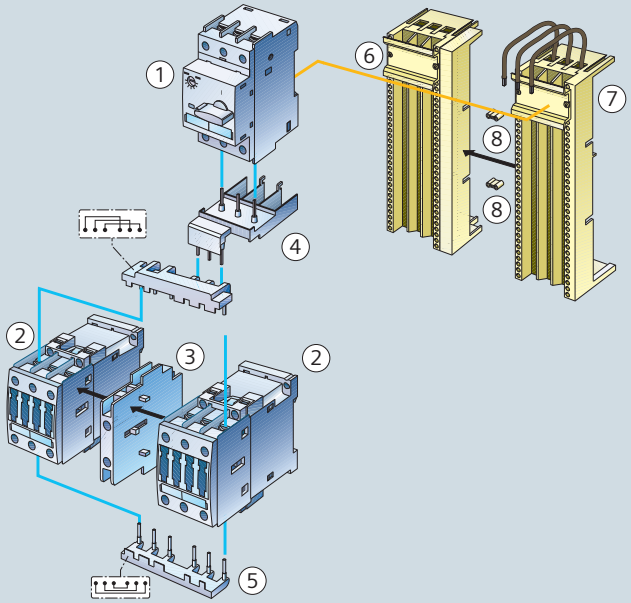
S0 design

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, solid-state contactor, solid-state reversing contactor; soft starter		
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 23-1C
60 mm: 3RA19 23-1D
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)
1 rail adapter
1 side module
2 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. = 10 modules)		**3RA19 02-1B**
Link wedges (1 Order No. = 100 wedges)		**8US19 98-1AA00**

1) With 3RW40: for rated device operating voltage Ue: 200–480 V (see catalog for Ue: 400–600 V)

2) For using tripping CLASS 20, please refer to the information contained in the "SIRIUS Engineering – Fuseless Load Feeders" configuration brochure and in the catalog

3) Fan available as accessory

4) Mounting on circuit breaker (MSP) by means of 3RA 19 21-1AA00 connection module

5) For the suitable circuit breaker connection module, please refer to the catalog

3-phase motor AC-3/400 V		Circuit breakers (MSP)		Contactors			Soft starters[5]			Overload relays			
		Setting range CLASS 10	Order No.	Control supply voltage	Aux-iliary contacts	Order No.	Control-supply voltage	Rated operating *current* *Ie* [A]	Order No.	Setting range CLASS 10	Thermal Order No.	Setting range	Electronic Order No.[2]
[kW]	[A]	[A]								[A]		[A]	
5.5	11.5	9 – 12.5	3RV10 21-1KA10	230 V AC, 50/60 Hz	–	3RT10 24-1AL20	110–230 V[3] AC/DC	12.5	3RW40 24-1BB14[1]	9 – 12.5	3RU11 26-1KB0		
				24 V DC	–	3RT10 24-1BB40							
7.5	15.5	11 – 16	3RV10 21-4AA10				24 V[3] AC/DC	12.5	3RW40 24-1BB04[1]	11 – 16	3RU11 26-4AB0		
				230 V AC, 50/60 Hz	–	3RT10 25-1AL20	110–230 V AC/DC	25	3RW30 26-1BB14				
7.5	15.5	14 – 20	3RV10 21-4BA10	24 V DC	–	3RT10 25-1BB40				14 – 20	3RU11 26-4BB0		
							24 V AC/DC	25	3RW30 26-1BB04			6 – 25	3RB2□2□-□QB0
				230 V AC, 50/60 Hz	–	3RT10 26-1AL20	110–230 V[3] AC/DC	25	3RW40 26-1BB14[1]				
11	22	17 – 22	3RV10 21-4CA10	24 V DC	–	3RT10 26-1BB40				17 – 22	3RU11 26-4CB0		
							24 V[3] AC/DC	25	3RW40 26-1BB04[1]				
11	22	20 – 25	3RV10 21-4DA10							20 – 25	3RU11 26-4DB0		

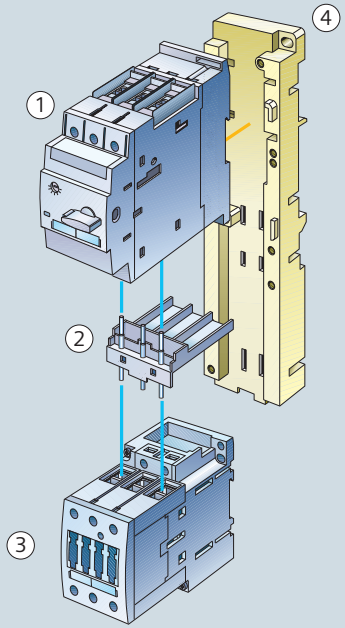
CLASS 10 0 6 1
CLASS 20 0 6 2
CLASS 5...30* 1 3 4

* With ground-fault detection (activatable) and electrical remote reset

		Solid-state contactors				Solid-state reversing contactors					
1.5	3.8	2.8 – 4	3RV10 21-1EA10				110–230 V AC	3RF24 03-1BD24[4]		1 – 4	3RB2□2□-□P B0
							24 V DC	3RF24 03-1BD04[4]			
2.2	5.2	4.5 – 6.3	3RV10 21-1GA10	110–230 V AC	–	3RF24 05-1BB24[4]	110–230 V AC	3RF24 05-1BD24[4]			
				24 V DC	–	3RF24 05-1BB04[4]	24 V DC	3RF24 05-1BD04[4]			
3	7.4	5.5 – 8	3RV10 21-1HA10				110–230 V AC	3RF24 10-1BD24[4]		3 – 12	3RB2□2□-□SB0
							24 V DC	3RF24 10-1BD04[4]			
4	9.2	7 – 10	3RV10 21-1JA10	110–230 V AC	–	3RF24 10-1BB24[4]					
				24 V DC	–	3RF24 10-1BB04[4]					
5.5	12.5	9 – 12.5	3RV10 21-1KA10	110–230 V AC	–	3RF24 12-1BB24[4]				6 – 25	3RB2□2□-□QB0
				24 V DC	–	3RF24 12-1BB04[4]					
7.5	16	11 – 16	3RV10 21-4AA10	110–230 V AC	–	3RF24 16-1BB24[4]					
				24 V DC	–	3RF24 16-1BB04[4]					

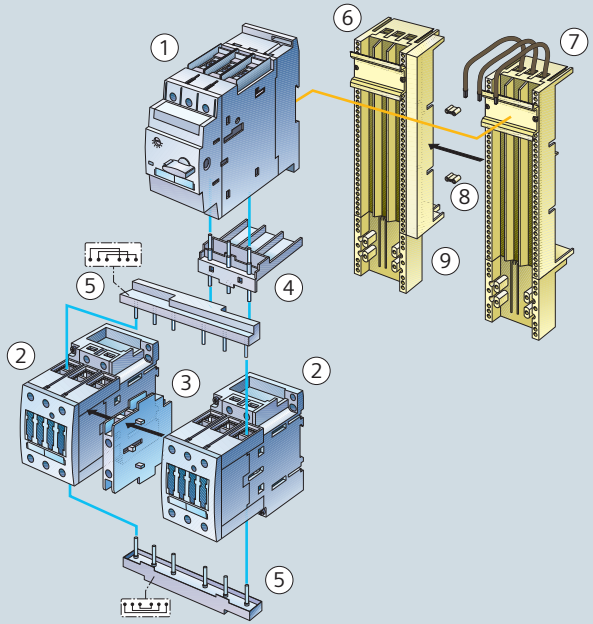
S2 design

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 adapters

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**

1) With 3RW40: for rated device operating voltage Ue: 200–480 V (see catalog for Ue: 400–600 V)

2) For using tripping CLASS 20, please refer to the information contained in the "SIRIUS Engineering – Fuseless Load Feeders" configuration brochure and in the catalog

3) Fan available as accessory

5) For the suitable circuit breaker connection module, please refer to the catalog

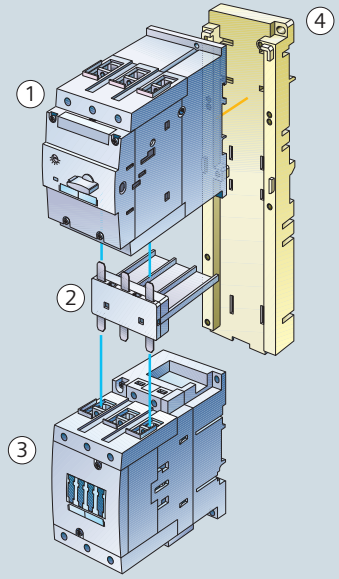
3-phase motor AC-3/400 V		Circuit breakers (MSP)		Contactors			Soft starters[5]			Overload relays			
		Setting range CLASS 10	Order No.	Control supply voltage	Auxiliary contacts	Order No.	Control supply voltage	Rated operating *current* *Ie* [A]	Order No.	Setting range CLASS 10	Thermal Order No.	Setting range	Electronic Order No.[2]
[kW]	[A]	[A]								[A]		[A]	
15	29	22 – 32	3RV10 31-4EA10	230 V AC, 50/60 Hz	–	3RT10 34-1AL20				22 – 32	3RU11 36-4EB0		
				24 V DC	–	3RT10 34-1BB40	110–230 V AC/DC						
								45	3RW30 36-1BB14				
18.5	35	28 – 40	3RV10 31-4FA10				24 V AC/DC			28 – 40	3RU11 36-4FB0		
				230 V AC, 50/60 Hz	–	3RT10 35-1AL20		45	3RW30 36-1BB04			12,5 – 50	3RB2□3□-□UB0
				24 V DC	–	3RT10 35-1BB40	110–230 V[3] AC/DC						
22	41	36 – 45	3RV10 31-4GA10					45	3RW40 36-1BB14[1]	36 – 45	3RU11 36-4GB0		
							24 V[3] AC/DC						
				230 V AC, 50/60 Hz	–	3RT10 36-1AL20		45	3RW40 36-1BB04[1]				
22	41	40 – 50	3RV10 31-4HA10	24 V DC	–	3RT10 36-1BB40				40 – 50	3RU11 36-4HB0		

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

* With ground-fault detection (activatable) and electrical remote reset

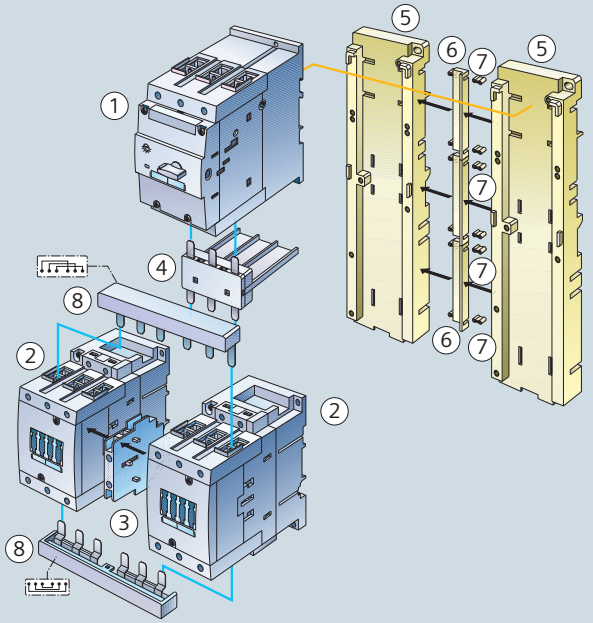
S3 design

Direct start



	Version	Order No.
1 Size S3 circuit breaker		
2 Link module	AC DC	**3RA19 41-1AA00** **3RA19 41-1BA00**
3 Size S3 contactor		
For rail mounting (diagram)		
4 Rail adapter		**3RA19 42-1A**

Reversing start



Assembly kit for rail mounting

3RA19 43-1B

comprising:

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

	Version	Order No.
1 Size S3 circuit breaker		
2 2 Size S3 connectors		
3 Mechanical interlock		**3RA19 24-2B**
4 Link module	AC DC	**3RA19 41-1AA00** **3RA19 41-1BA00**
5 Rail adapter		**3RA19 42-1AA00**
6 Side modules for rail adapters (1 Order No. = 10 adapters)		**3RA19 02-1B**
7 Link wedges (1 Order No. = 100 wedges)		**8US19 98-1AA00**
8 Wiring kit: upper link module, lower link module		**3RA19 43-2A**

1) With 3RW40: for rated device operating voltage Ue: 200–480 V (see catalog for Ue: 400–600 V)

2) For using tripping CLASS 20, please refer to the information contained in the "SIRIUS Engineering – Fuseless Load Feeders" configuration brochure and in the catalog

3) Fan available as accessory

5) For the suitable circuit breaker connection module, please refer to the catalog

3-phase motor AC-3/400 V		Circuit breakers (MSP)		Contactors			Soft starters[5]			Overload relays			
		Setting range CLASS 10	Order No.	Control supply voltage	Auxiliary switches	Order No.	Control supply voltage	Rated operating *current* *Ie*	Order No.	Setting range CLASS 10	Thermal Order No.	Setting range	Electronic Order No.[2]
[kW]	[A]	[A]						[A]		[A]		[A]	
30	55	42 – 63	3RV10 41-4JA10	230 V AC, 50/60 Hz	–	3RT10 44-1AL20				45 – 63	3RU11 46-4JB0		
				24 V DC	–	3RT10 44-1BB40	110–230 V AC/DC						
								80	3RW30 46-1BB14				
37	67	57 – 75	3RV10 41-4KA10				24 V AC/DC			57 – 75	3RU11 46-4KB0		
				230 V AC, 50/60 Hz	–	3RT10 45-1AL20		80	3RW30 46-1BB04			25 – 100	3RB2□4□-□EB0
				24 V DC	–	3RT10 45-1BB40	110–230 V[3] AC/DC						
45	80	70 – 90	3RV10 41-4LA10					80	3RW40 46-1BB14[1]	70 – 90	3RU11 46-4LB0		
				230 V AC, 50/60 Hz	–	3RT10 46-1AL20	24 V[3] AC/DC						
45	80	80 – 100	3RV10 41-4MA10	24 V DC	–	3RT10 46-1BB40		80	3RW40 46-1BB04[1]	80 – 100	3RU11 46-4MB0		

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

* With ground-fault detection (activatable) and electrical remote reset

S6, S10, S12 selection and ordering data

S6

Contactors

3-phase motor AC-3/400 V [kW]	[A]	Electromagnetic operating mechanism	Control supply voltage [V AC/DC]	Auxiliary switches	Contactor Order No.	Vacuum contactor Order No.
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[2]

Setting range [A]	Electronic 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 (activatable) and electrical remote reset

Soft starters

Control supply voltage	Rated operating *current* [1] *Ie* [A]	Order No.
230 V AC	134	**3RW40 55-6BB44**
115 V AC	134	**3RW40 55-6BB34**
230 V AC	162	**3RW40 56-6BB44**
115 V AC	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**	55 – 250	**3RB2□6□-□GC2** with busbar connection
		– 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**	160 – 630	**3RB2□6□-□MC2** with busbar connection
		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**	–		

230 V AC	230	**3RW40 73-6BB44**
115 V AC	230	**3RW40 73-6BB34**
230 V AC	280	**3RW40 74-6BB44**
115 V AC	280	**3RW40 74-6BB34**

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

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

* With ground-fault detection (activatable) and electrical remote reset

230 V AC	356	**3RW40 75-6BB44**
115 V AC	356	**3RW40 75-6BB34**
230 V AC	432	**3RW40 76-6BB44**
115 V AC	432	**3RW40 76-6BB34**

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."

1) For rated device operating voltage Ue: 200–460 V (see catalog for Ue: 400–600 V)

2) For using tripping CLASS 20, please refer to the information contained in the "SIRIUS Engineering – Fuseless Load Feeders" configuration brochure and in the catalog

3) RLT: Remaining lifetime indication

SENTRON 3VL circuit breakers are suitable for the fuseless short-circuit and overload protection of soft starters of size S6 or larger. For further information, please refer to the catalog.

Completely mounted/assembled load feeders

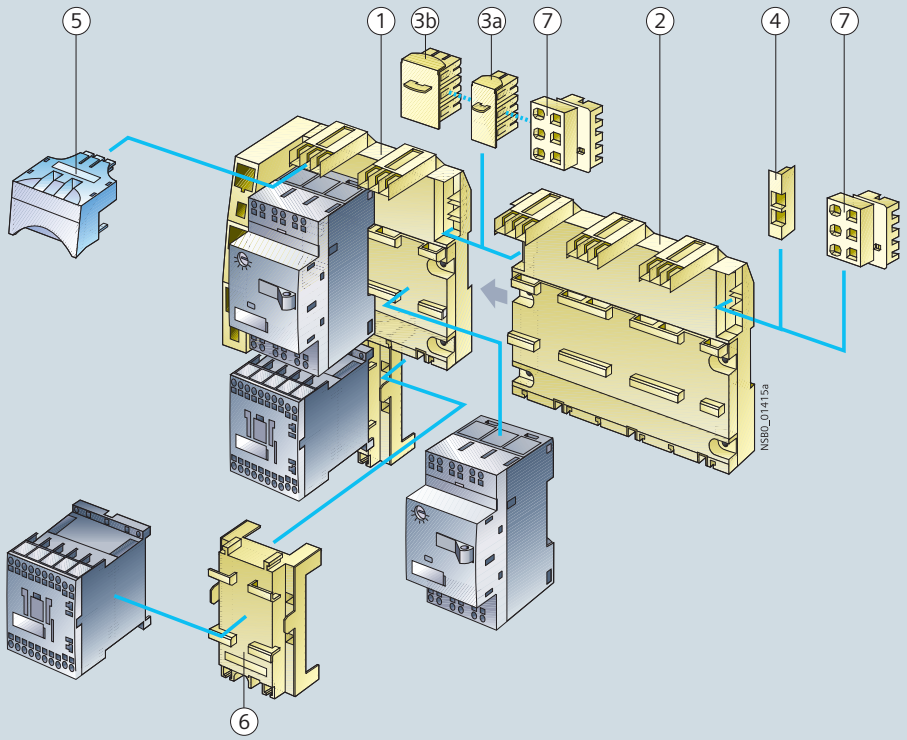
Fuseless load feeders

3-phase motor AC-3/400 V [kW]	[A]	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
0.06	0.2	0.14 – 0.2	3RA11 10-0BA15-1AP0	3RA12 10-0BA15-0AP0				
0.06	0.2	0.18 – 0.25	3RA11 10-0CA15-1AP0	3RA12 10-0CA15-0AP0				
0.09	0.3	0.22 – 0.32	3RA11 10-0DA15-1AP0	3RA12 10-0DA15-0AP0				
0.09	0.3	0.28 – 0.4	3RA11 10-0EA15-1AP0	3RA12 10-0EA15-0AP0				
0.12	0.4	0.35 – 0.5	3RA11 10-0FA15-1AP0	3RA12 10-0FA15-0AP0				
0.18	0.6	0.45 – 0.63	3RA11 10-0GA15-1AP0	3RA12 10-0GA15-0AP0	S00	Coordination type 2 also fulfills coordination type 1	Coordination type 2 also fulfills coordination type 1	
0.18	0.6	0.55 – 0.8	3RA11 10-0HA15-1AP0	3RA12 10-0HA15-0AP0				
0.25	0.6	0.7 – 1	3RA11 10-0JA15-1AP0	3RA12 10-0JA15-0AP0				
0.37	1.1	0.9 – 1.25	3RA11 10-0KA15-1AP0	3RA12 10-0KA15-0AP0				
0.55	1.5	1.1 – 1.6	3RA11 10-1AA15-1AP0	3RA12 10-1AA15-0AP0				
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	
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	S00
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	S0	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	S0
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	
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			

S00

S0

S2



1 3-phase busbar with infeed left, 3RV19 17-1A
2 3-phase busbar to expand the system, 3RV19 17-4B
3a Expansion connector, 3RV19 17-5BA00
3b Broadened expansion plug, 3RV19 17-SE
4 End cover, 3RV19 17-6A
5 Connection plug, 3RV19 17-5AA00
6 Contactor socket, 3RV19 17-AA00
7 Terminal block, 3RV19 17-5D

	Version	Order No.
3-phase busbars		
 1 **3-phase busbars with infeed left** incl. 3RV19 17-6A end cover	for 2 switches	**3RV19 17-1A**
2 **3-phase busbars with infeed right** incl. 3RV19 17-6A end cover	for 2 switches	**3RV19 17-1E**
 **3-phase busbars to expand the system** incl. 3RV19 17-5BA00 expansion connector	for 2 switches	**3RV19 17-4A**
3-phase busbars to expand the system incl. 3RV19 17-5BA00 expansion connector	for 3 switches	**3RV19 17-4B**
Connection plug		
 5 **Connection plug** to connect to the circuit breaker S00, screw	1 unit	**3RV19 17-5CA00**
	10 units	**3RV19 17-5C**
S00, spring-loaded terminals	1 unit	**3RV19 17-5AA00**
	10 units	**3RV19 17-5A**
S0, screw	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		**3RV19 17-7B**
 3b **Wider expansion 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 Wye-delta* combinations

Reversing combinations up to 45 kW

S00

Reversing combinations

3-phase motor AC-3/400 V [kW]	[A]	Size	Pre-wired and tested for 230 V AC, 50/60 Hz Order No.
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

Wye-delta* combinations up to 75 kW

S00

Contactors combinations

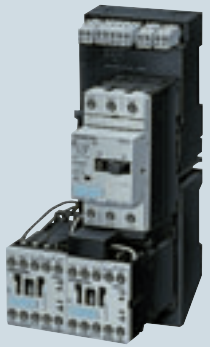
3-phase motor AC-3/400 V [kW]	[A]	Size	Pre-wired and tested for 230 V AC, 50/60 Hz Order No.
5.5	12	S00-S00-S00	**3RA14 15-8XB31-1AP0**
7.5	17	S00-S00-S00	**3RA14 16-8XB31-1AP0**
11	25	S0-S0-S0	**3RA14 23-8XC21-1AL2**
15/18.5	32/40	S0-S0-S0	**3RA14 25-8XC21-1AL2**
22/30	50/65	S2-S2-S0	**3RA14 34-8XC21-1AL2**
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 [kW]	[A]	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
0.04	0.16	0.11 – 0.16	3RA71 01-0AA17-0AL2	3RA71□1-0AA17-0AB4	
0.06	0.2	0.14 – 0.2	3RA71 01-0BA17-0AL2	3RA71□1-0BA17-0AB4	
0.06	0.2	0.18 – 0.25	3RA71 01-0BA17-0AL2	3RA71□1-0BA17-0AB4	
0.09	0.3	0.22 – 0.32	3RA71 01-0DA17-0AL2	3RA71□1-0DA17-0AB4	
0.09	0.3	0.28 – 0.4	3RA71 01-0EA17-0AL2	3RA71□1-0EA17-0AB4	
0.12	0.4	0.35 – 0.5	3RA71 01-0FA17-0AL2	3RA71□1-0FA17-0AB4	S00
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	
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	S0
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)



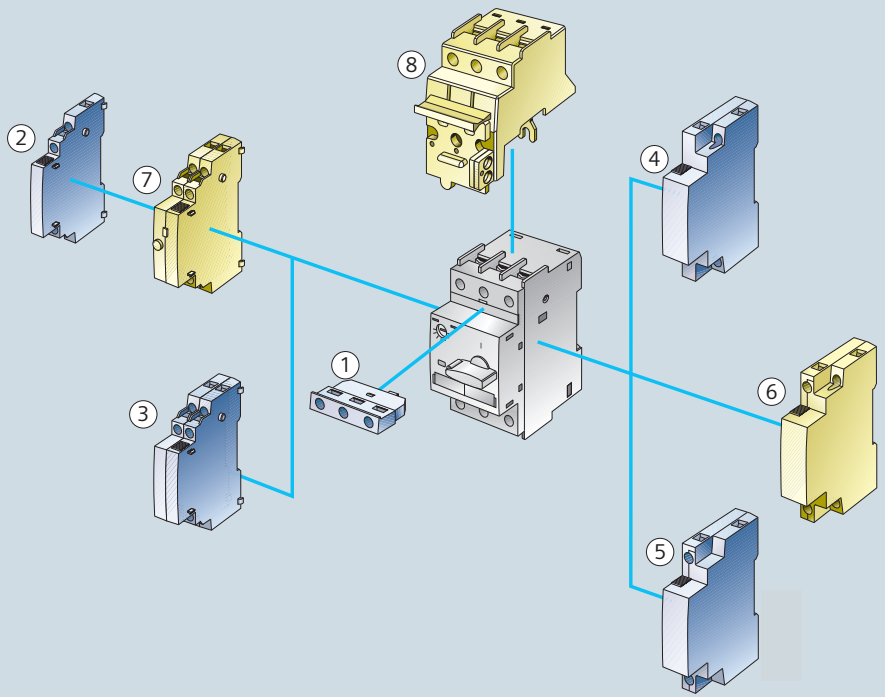
S00

0 Safety electronics as basic unit up to Category 3
1 Safety electronics as basic unit up to Category 4
2 Safety electronics as expansion unit
3 Safety electronics as expansion unit, time delay 0.05–3 s
4 Safety electronics as expansion unit, time delay 0.5–30s

* star-delta

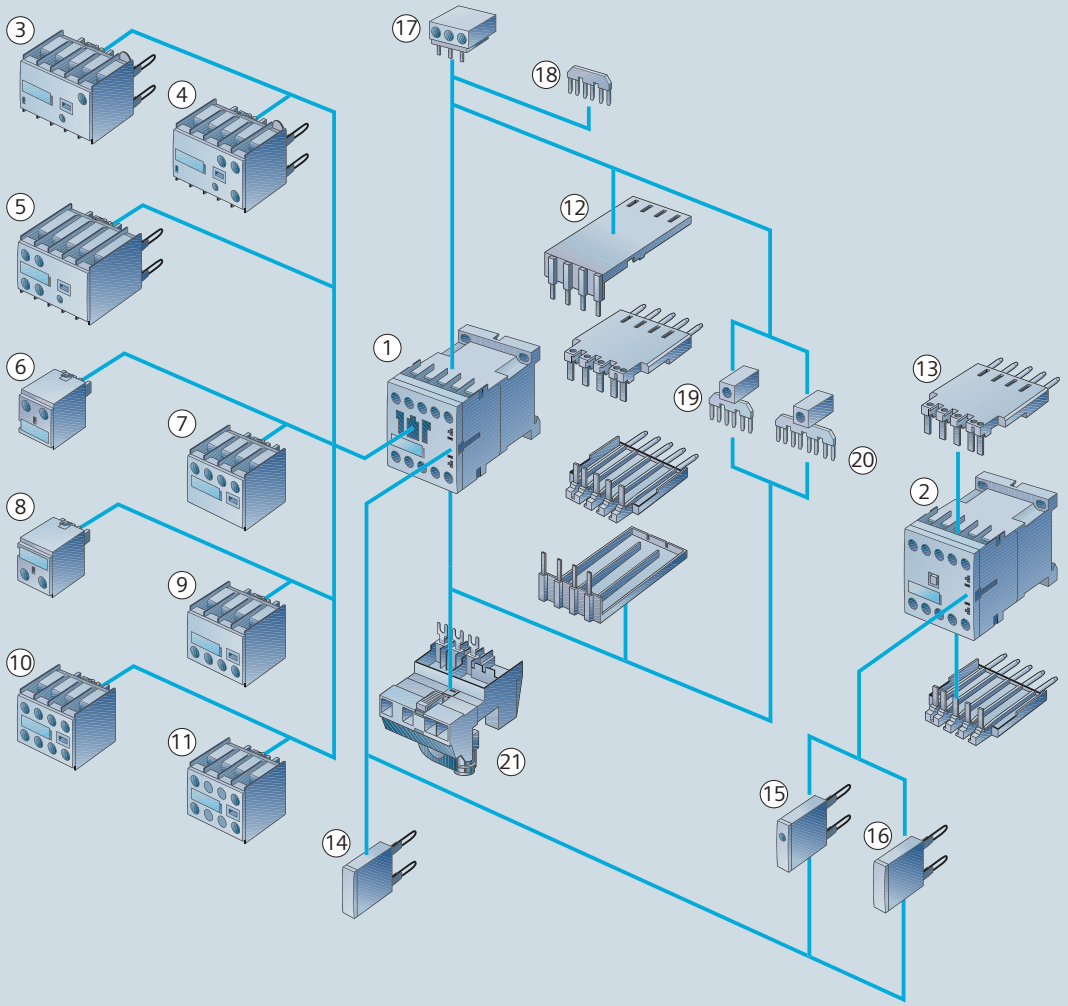
Accessories

Circuit breakers



		Version	For Size	Order No.
1	Transverse auxiliary switch	1W	S00, S0, S2, S3	**3RV19 01-1D**
		1NO + 1NC		**3RV19 01-1E**
		2NO		**3RV19 01-1F**
2	Transverse auxiliary switch with 2 contacts	1NO + 1NC	S00, S0, S2, S3	**3RV19 01-1A**
		2NO		**3RV19 01-1B**
		2NC		**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	**3RV19 12-1CP0**
			S0, S2, S3	**3RV19 22-1CP0**
7	Signaling switch		S0, S2, S3	**3RV19 21-1M**
8	Isolator module		S0	**3RV19 28-1A**
			S2	**3RV19 38-1A**

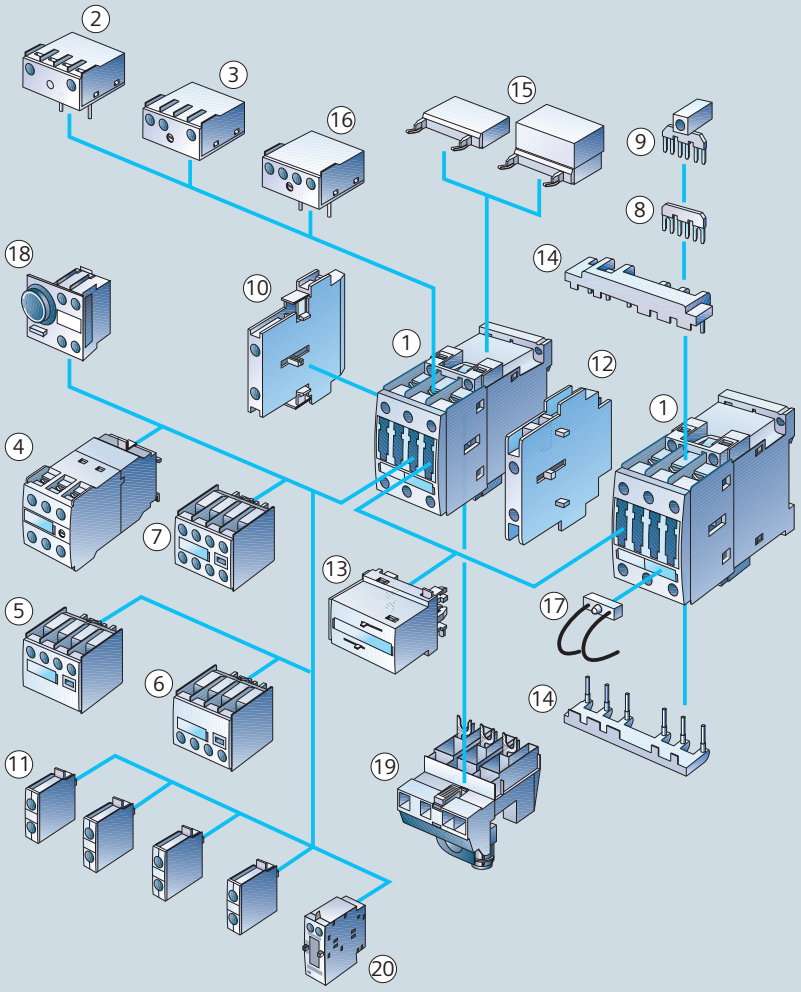
	Version		For Size	Order No.
Insulated 3-phase busbar systems				
	**3-phase busbars, modular spacing 45 mm**			
	for 2 switches		S00, S0	**3RV19 15-1AB**
	for 3 switches			**3RV19 15-1BB**
	for 4 switches			**3RV19 15-1CB**
	for 5 switches			**3RV19 15-1DB**
	Connector from S0 to S00		S00, S0	**3RV19 15-5DB**
	**3-phase busbars, modular spacing 55 mm**			
	for 2 switches		S2	**3RV19 35-1A**
	for 3 switches			**3RV19 35-1B**
	for 4 switches			**3RV19 35-1C**
	**3-phase line-side terminal,** connection from the top		S00	**3RV19 15-5A**
			S0	**3RV19 25-5AB**
			S2	**3RV19 35-5A**
Door-coupling rotary operating mechanisms				
	**Black**			
	Extension shaft	130 mm	S0, S2, S3	**3RV19 26-0B**
	Extension shaft with support bracket	330 mm		**3RV19 26-0K**
Moulded-plastic enclosure for wall mounting				
	**With actuator diaphragm**			
	width 54 mm (e.g. switch + transverse auxiliary switch)		S00	**3RV19 13-1CA00**
	width 72 mm (e.g. switch + transverse auxiliary switch + auxiliary release)		S00	**3RV19 13-1DA00**
	**With rotary operating mechanism**			
	width 54 mm (e.g. switch + transverse auxiliary switch)		S0	**3RV19 23-1CA00**
	width 72 mm (e.g. switch + transverse auxiliary switch + auxiliary release)		S0	**3RV19 23-1DA00**



		Version	Order No.
1	Contactor (example) control supply voltage	4 kW/400 V, 1NO 230 V, 50/60 Hz	**3RT10 16-1AP01**
2	Contactor relay (example) control supply voltage	4 kW/400 V, 1NO 230 V, 50/60 Hz	**3RT10 16-1HB41**
3	Solid-state time-delay block ON delay	0.5 – 10 s	**3RT19 16-2CH21**
4	Solid-state time delay block OFF delay	0.5 – 10 s	**3RT19 16-2DH21**
5	Auxiliary switch block, solid-state time-delay ON delay OFF delay	 0.5 – 10 s 0.5 – 10 s	 **3RT19 16-2ED21** **3RT19 16-2FL21**
6	1-pole auxiliary switch block, cable entry from above	1NO 1NC	**3RH19 11-1AA10** **3RH19 11-1AA01**
7	2-pole auxiliary switch block, cable entry from above	1NO + 1NC	**3RH19 11-1LA11**
8	1-pole auxiliary switch block, cable entry from below	1NO 1NC	**3RH19 11-1BA10** **3RH19 11-1BA01**
9	2-pole auxiliary switch block, cable entry from below	1NO + 1NC	**3RH19 11-1MA11**
10	4-pole auxiliary switch block, (terminal designations acc. to DIN EN 50 012)	2NO + 2NC	**3RH19 11-1HA22**
11	2-pole auxiliary switch block, solid-state compatible design (acc. to DIN EN 50 005)	1NO + 1NC	**3RH19 11-1NF11**
12	Solder pin adapter for contactor with 4-pole auxiliary switch block	for 4 contactors (package)	**3RT19 16-4KA2**
13	Solder pin adapter for contactor and contactor relay	for 4 contactors (package)	**3RT19 16-4KA1**
14	Additional load module, for an increase of the permissible residual current	180–255 V AC, 50/60 Hz	**3RT19 16-1GA00**
15	Surge suppressor with LED (varistor)	127–240 V AC 12–24 V DC	**3RT19 16-1JL00** **3RT19 16-1JJ00**
16	Surge suppressor without LED (varistor)	127–240 V AC 24–70 V DC	**3RT19 16-1BD00** **3RT19 16-1BB00**
17	3-phase infeed terminal connection cross-section:	 6 mm²	 **3RA19 13-3K**
18	Link for paralleling, (star jumper), 3-pole, without terminal	–	**3RT19 16-4BA31**
19	Link for paralleling, 3-pole, with terminal	–	**3RT19 16-4BB31**
20	Link for paralleling, 4-pole, with terminal	–	**3RT19 16-4BB41**
21	Connection module (adapter and plug) for contactor with screw-type connection	AC-3/400 V: 20 A	**3RT19 16-4RD01**

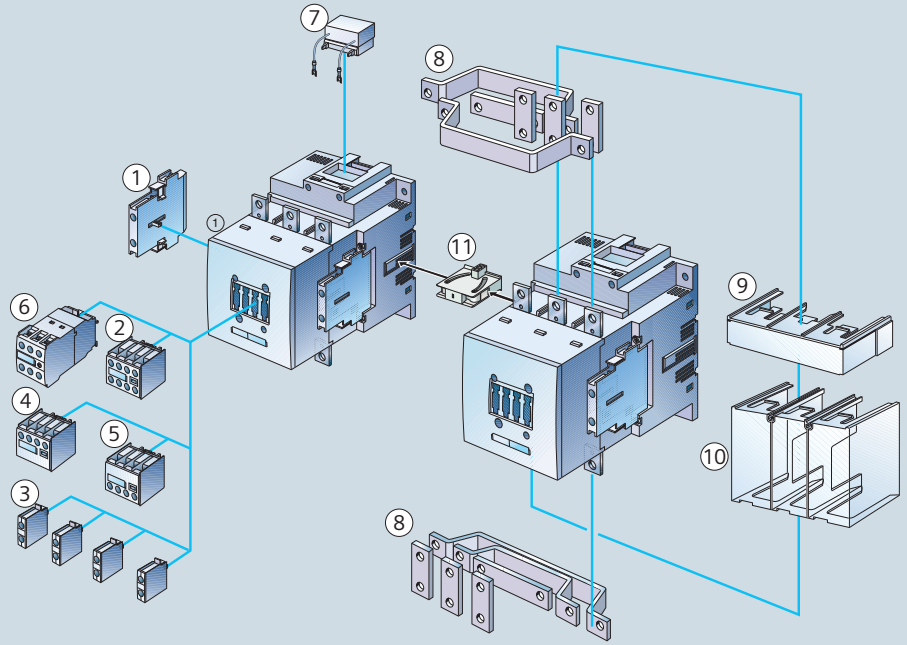
Accessories

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 or DIN EN 50 005)	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 50 012 or DIN EN 50 005)	1NO + 1NC	S0 – S3	**3RH19 21-1DA11**
11	1-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)	– – –	S0 S2 S3	**3RA19 23-2A** **3RA19 33-2A** **3RA19 43-2A**
15	Surge suppressor (varistor, RC coupling, diode combination), 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	Pneumatic delay block ON delay OFF delay 	 0.1 – 30 s 1 – 60 s 0.1 – 30 s 1 – 60 s	 S0 S0 S0 S0	 **3RT19 26-2PA01** **3RT19 26-2PA11** **3RT19 26-2PR01** **3RT19 26-2PR11**
19	Connection module (adapter and connector) for contactor with screw-type connection	AC-3/400 V: 25 A	S0	**3RT19 26-4RD01**
20	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**

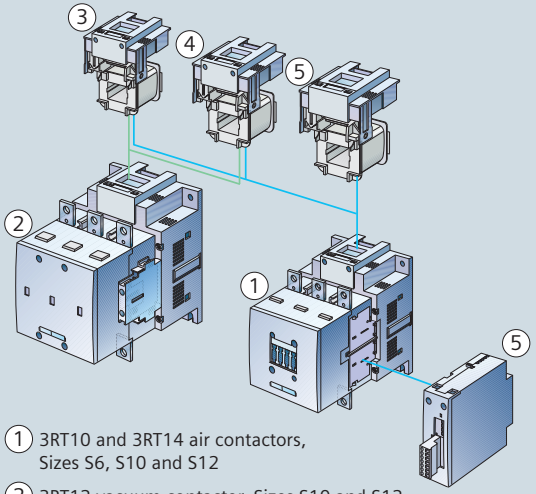
Contactors S6 – S12



		Version	Order No.
1	2-pole auxiliary switch block, can be laterally mounted		
	– 2nd block (left/right), DIN EN 50 012	1NO + 1NC	**3RH19 21-1JA11**
	– 2nd block (left/right), DIN EN 50 005	1NO + 1NC	**3RH19 21-1KA11**
		2NO	**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	**3RH19 21-1XA22-0MA0**
	– with classification No. 1...4, DIN EN 50 012	2NO + 2NC	**3RH19 21-1HA22**
3	1-pole auxiliary switch block, can be mounted at the front	1NO	**3RH19 21-1CA10**
		1NC	**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	1NO + 1NC	
	– ON delay, 200–240 V AC	0. ... 10 s	**3RH19 26-2ED21**
	– OFF delay, 200–240 V AC	0.5 ... 10 s	**3RH19 26-2FL21**

		Version	Order No.
7	RC element, 127 ... 240 V AC		**3RT19 56-1CD00**
8	Wiring connectors, top and bottom	for S6	**3RA19 53-2M**
		for S10	**3RA19 63-2A**
		for S12	**3RA19 73-2A**
9	Connection cover for box terminals	for S6	**3RT19 56-4EA2**
		for S10/S12	**3RT19 66-4EA2**
10	Terminal cover for cable lug and busbar connection	for S6	**3RT19 56-4EA2**
		for S10/S12	**3RT19 66-4EA2**
11	Mechanical interlock		**3RA19 54-2A**

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	electronic
			control supply voltage 220 ... 240 V AC/DC	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 electronic overload relays

Version		For Size	Order No.
Adapter for stand-alone assembly for 3RB20/21			
for separately mounting the overload relays, screw-type and snap-on fastening on TH 35 DIN rails		S00	**3RB29 13-0AA1**
		S0	**3RB29 23-0AA1**
Terminal support for stand-alone assembly for 3RU11			
for separately mounting the overload relays, screw-type and snap-on fastening on TH 35 DIN rails, size S3 also for TH 75 DIN rails		S00	**3RU19 16-3AA01**
		S0	**3RU19 26-3AA01**
		S2	**3RU19 36-3AA01**
		S3	**3RU19 46-3AA01**

Mechanical RESET for 3RU11 and 3RB20/21 comprising:			
① Resetting plunger, holder and former		S00 to S10/S12	**3RU19 00-1A**
② Pushbutton with extended stroke (12 mm), IP65, Ø 22 mm		S00 to S10/S12	**3SB30 00-0EA11**
Extension plunger for compensation of the distance between a pushbutton and the relay's release button		S00 to S10/S12	**3SX1335**

Cable release with holder for RESET 3RU11 and 3RB20/21			
for holes 6.5 mm diameter in the panel; max. panel thickness, 8 mm	length 400 mm	S00 to S10/S12	**3RU19 00-1B**
	length 600 mm	S00 to S10/S12	**3RU19 00-1C**

Version		For Size	Order No.
Sealable cover, transparent for 3RB20/21			
to cover the setting elements		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 mm²	S6	**3RT19 55-4G**
	to 120 mm²	S6	**3RT19 56-4G**
	to 240 mm²	S10/S12	**3RT19 66-4G**

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 electronic overload relay	**3RU11 16 resp. 3RB10 16**	1
11	Moulded-plastic enclosure for wall mounting IP65 degree of protection with actuator elements	S0	**3RE1923-1CB2**	Contactor	**3RT10 2**	1
				Thermal or electronic 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 electronic 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 electronic 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 electronic 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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