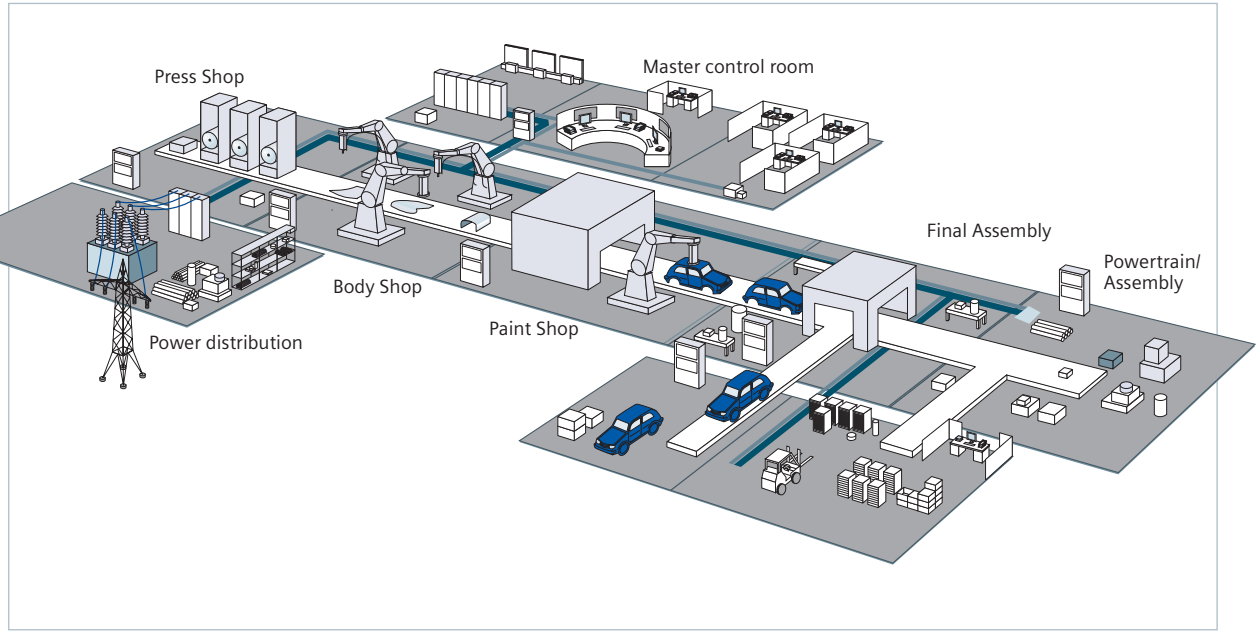
System-based switching, protecting, starting.
SIRIUS Modular System.

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/solid-state contactors and solid-state 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

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 advancement and continuous innovations ensure that – today and tomorrow – our customers are perfectly equipped with SIRIUS to profit from efficient solutions. All components of the SIRIUS modular system are characterized by their space-saving design and high flexibility. Engineering, installation, wiring and maintenance can be realized very easily and fast. Whether you want to assemble load feeders with circuit breakers or overload relays, contactor/solid-state contactor or solid-state reversing contactor or soft starters – SIRIUS offers the right product for all applications.

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.**

* For high switching frequencies, we recommend using the solid-state contactors / reversing contactors which are new additions to the modular system.

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.

Easily achieving maximum switching frequencies: SIRIUS 3RF solid-state contactors

SIRIUS solid-state contactors (size S0) for motor switching have almost unlimited service life – even under harsh conditions and high switching frequencies. The three-phase solid-state contactors switch motors up to 7.5 kW. A special reversing contactor design facilitates continuous motor reversal up to 3 kW. The compact device with a width of 45 or 90 mm can be combined with our circuit breakers (MSP) or solid-state overload relays – for 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 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.

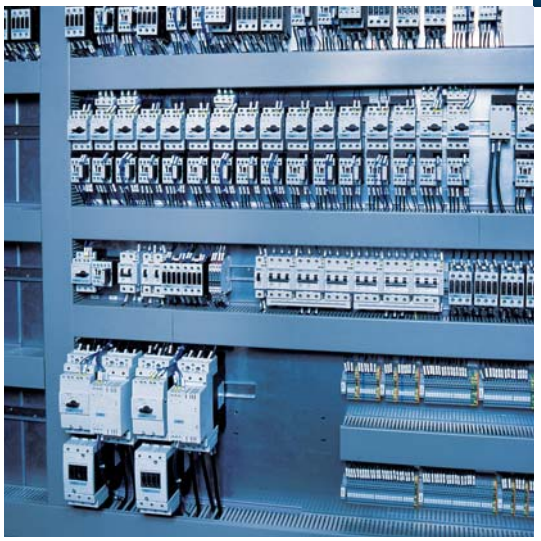
* MSP: Motor Starter Protector

More about the **SIRIUS Modular System.**

Straight ahead: The 3RA11 direct starter

Phases interchanged: The 3RA12 reversing starter

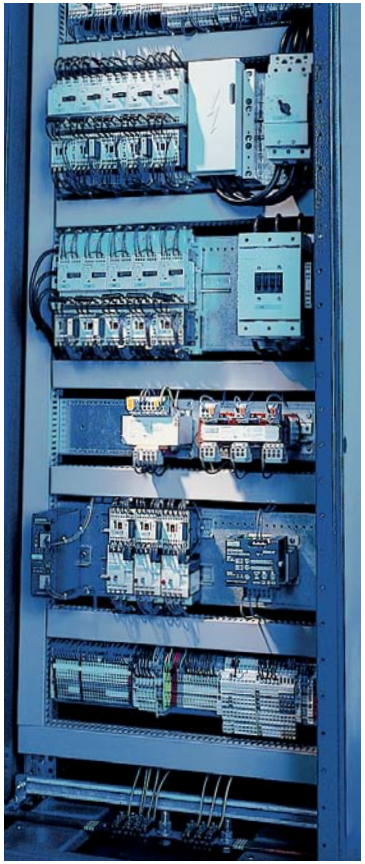
Two stages – one start:
The 3RA14 star-delta combination



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 right 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 right combination for reversing operation; for rapidly switching applications, solid-state reversing contactors can be applied up to 3 kW
- 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

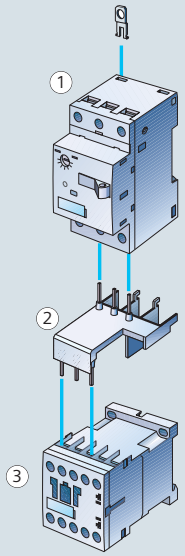
The SIRIUS infeed system allows power to be fed and distributed to a group of several circuit-breakers or complete load feeders in a user-friendly fashion. These devices belong to the modular SIRIUS system and are available with spring-loaded terminals for power ratings up to 5.5 kW at 400 V AC.

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

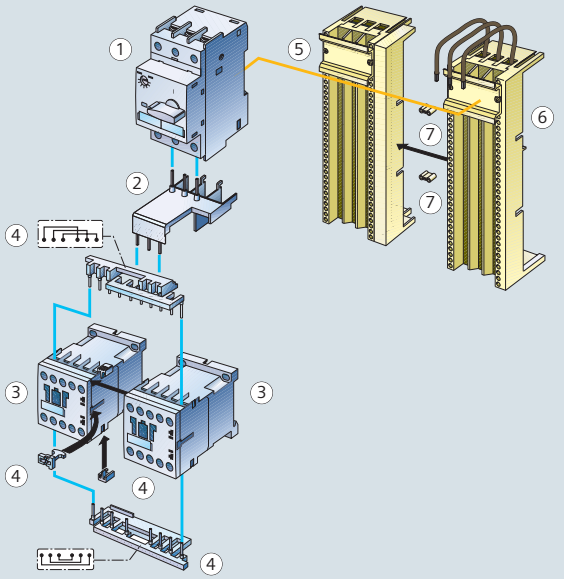
- New degree of flexibility when configuring and extending the system
- Integration of motor feeders with screw and spring-loaded terminals possible
- Maximum current rating of 80 A
- Additional 1-, 2- or 3-pole components can be additionally integrated using the terminal block
- Either infeed from the left or right up to conductor cross-sections of 25 mm^2
- 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

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



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	**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		

[1] For rated device operating voltage Ve: 200–460 V (Ve: 460–575 V refer to Catalog)

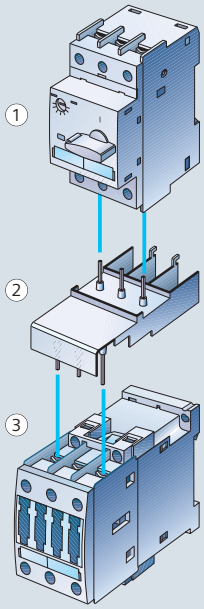
[2] When using tripping class CLASS 20 refer to the information in the engineering support "Engineering SIRIUS fuseless load feeders" and also in the Catalog

3-phase motor AC-3/400 V		Circuit breakers (MSP)		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] *Ie*	Order No.	Setting range CLASS 10 [A]	Thermal Order No.	Setting range [A]	Solid-state Order No.
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								0.14 – 0.2	3RU11 16-0BB0		
0.06	0.2	0.18 – 0.25	3RV10 11-0CA10								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								0.22 – 0.32	3RU11 16-0DB0		
0.09	0.3	0.28 – 0.4	3RV10 11-0EA10								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								0.55 – 0.8	3RU11 16-0HB0	0.32 – 1.25	3RB2□1□-□NB0
0.25	0.8	0.7 – 1	3RV10 11-0JA10	AC 230 V, 50/60 Hz	1NC		3RT10 15-1AP02	AC/DC 110–230 V			0.7 – 1	3RU11 16-0JB0		
0.37	1.1	0.9 – 1.25	3RV10 11-0KA10		1NO		3RT10 15-1AP01		6	3RW30 14-1CB14	0.9 – 1.25	3RU11 16-0KB0		
0.55	1.5	1.1 – 1.6	3RV10 11-1AA10	DC 24 V	1NC		3RT10 15-1BB42	AC/DC DC 24 V			1.1 – 1.6	3RU11 16-1AB0		
0.75	1.9	1.4 – 2	3RV10 11-1BA10		1NO		3RT10 15-1BB41		6	3RW30 14-1CB04	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								2.2 – 3.2	3RU11 16-1DB0		
1.5	3.6	2.8 – 4	3RV10 11-1EA10								2.8 – 4	3RU11 16-1EB0		
1.5	3.6	3.5 – 5	3RV10 11-1FA10								3.5 – 5	3RU11 16-1FB0		
2.2	5.2	4.5 – 6.3	3RV10 11-1GA10								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	AC 230 V, 50/60 Hz	1NC		3RT10 16-1AP02	AC/DC 110–230 V			7 – 10	3RU11 16-1JB0		
					1NO		3RT10 16-1AP01		9	3RW30 16-1CB14			3 – 12	3RB2□1□-□SB0
				DC 24 V	1NC		3RT10 16-1BB42	AC/DC 24 V						
					1NO		3RT10 16-1BB41		9	3RW30 16-1CB04				
5.5	11.5	9 – 12	3RV10 11-1KA10	AC 230 V, 50/60 Hz	1NC		3RT10 17-1AP02				9 – 12	3RU11 16-1KB0		
					1NO		3RT10 17-1AP01							
				DC 24 V	1NC		3RT10 17-1BB42							
					1NO		3RT10 17-1BB41							

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

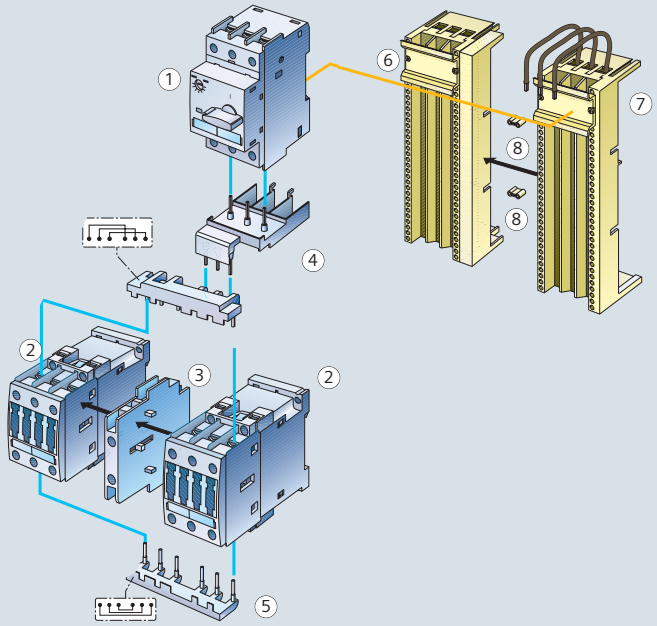
* With ground fault detection (can be activated) and electrical remote reset.

Direct start



		Version	Order No.
1	Size S0 circuit breaker		
2	Link module	AC	**3RA19 21-1AA00**
		DC	**3RA19 21-1BA00**
3	Size S0 contactor; solid-state contactor, solid-state reversing contactor; soft starter		
	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



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	**3RA19 21-1AA00**
		DC	**3RA19 21-1BA00**
5	Wiring kit: upper link module, lower link module		**3RA19 23-2A**
	For busbar mounting (diagram)		
6	Controlgear support	40 mm	**8US10 60-5AM00**
		60 mm	**8US12 60-5AM00**
7	Busbar adapter	40 mm	**8US10 51-5DM07**
		60 mm	**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
4) Mounting on circuit breaker (MSP) by means of link module 3RA19 21-1AA00

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

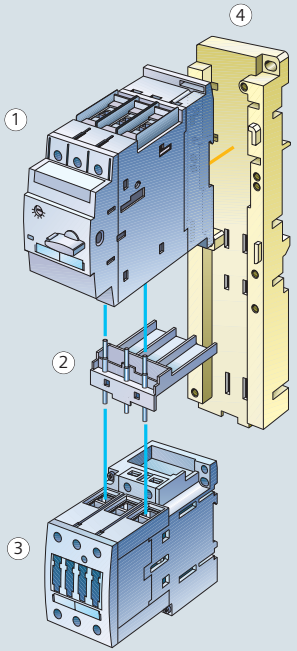
CLASS 10 0 6 1
CLASS 20 0 6 2
CLASS 5...30* 1 3 4

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

				Solid-state contactors			Solid-state reversing contactors		
1.5	3.8	2.8 – 4	3RV10 21-1EA10				AC 230 V		3RF24 03-1BD54[4]
							DC 24 V		3RF24 03-1BD04[4]
2.2	5.2	4.5 – 6.3	3RV10 21-1GA10	AC 230 V	–	3RF24 05-1BB54[4]	AC 230 V		3RF24 05-1BD54[4]
				DC 24 V	–	3RF24 05-1BB04[4]	DC 24 V		3RF24 05-1BD04[4]
3	7.4	5.5 – 8	3RV10 21-1HA10				AC 230 V		3RF24 10-1BD54[4]
							DC 24 V		3RF24 10-1BD04[4]
4	9.2	7 – 10	3RV10 21-1JA10	AC 230 V	–	3RF24 10-1BB54[4]			
				DC 24 V	–	3RF24 10-1BB04[4]			
5.5	12.5	9 – 12.5	3RV10 21-1KA10	AC 230 V	–	3RF24 12-1BB54[4]			
				DC 24 V	–	3RF24 12-1BB04[4]			
7.5	16	11 – 16	3RV10 21-4AA10	AC 230 V	–	3RF24 16-1BB54[4]			
				DC 24 V	–	3RF24 16-1BB04[4]			

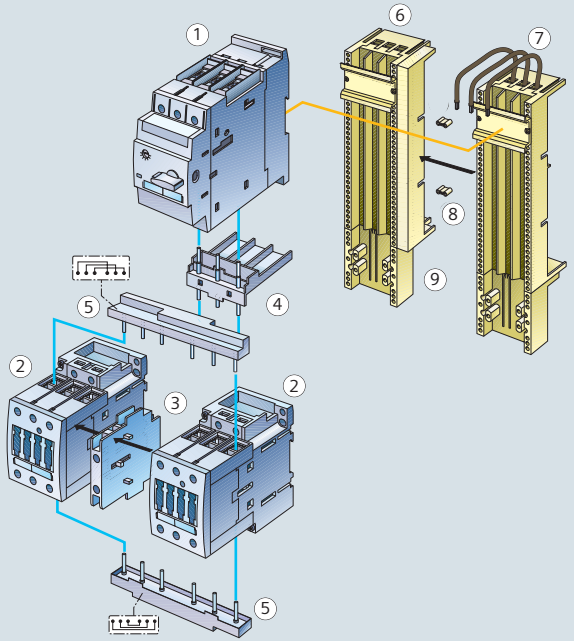
		3 – 12	3RB20 26-1SB0
		6 – 25	3RB20 26-1QB0

Direct start



	Version	Order No.
(1) Size S2 circuit breaker		
(2) Link module	AC	3RA19 31-1AA00
	DC	3RA19 31-1BA00
(3) Size S2 contactor		
For busbar mounting (alternative)		
Busbar adapter	40 mm	8US10 61-5FP08
	60 mm	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	3RA19 31-1AA00
	DC	3RA19 31-1BA00
(5) Wiring kit: upper link module, lower link module		3RA19 33-2A
For busbar mounting (diagram)		
(6) Controlgear support	40 mm	8US10 60-5AP00
	60 mm	8US12 60-5AP00
(7) Busbar adapter	40 mm	8US10 61-5FP08
	60 mm	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) 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

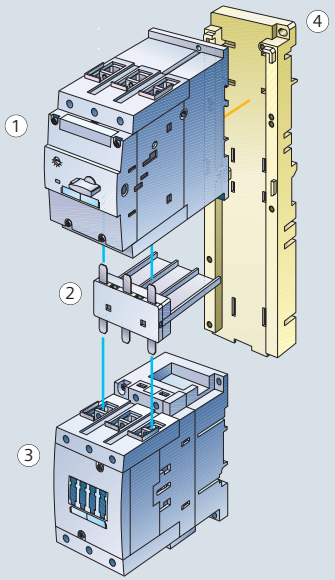
3) Fan available as accessory

3-phase motor AC-3/400 V		Circuit breakers (MSP)		Contactors			Soft starters			Overload relays			
		Setting range CLASS 10	Order No.	Control supply voltage	Auxiliary contacts	Order No.	Control supply voltage	Rated operating current[1]	Order No.	Setting range CLASS 10	Thermal Order No.	Setting range	Solid-state Order No.
[kW]	[A]	[A]						*Ie*		[A]		[A]	
15	29	22 – 32	3RV10 31-4EA10	AC 230 V, 50/60 Hz	–	3RT10 34-1AL20	AC/DC 110–230 V[3]	32	3RW30 34-1AB14	22 – 32	3RU11 36-4EB0		
				DC 24 V	–	3RT10 34-1BB40	AC/DC 24 V[3]	32	3RW30 34-1AB04				
18.5	35	28 – 40	3RV10 31-4FA10	AC 230 V, 50/60 Hz	–	3RT10 35-1AL20	AC/DC 110–230 V[3]	38	3RW30 35-1AB14	28 – 40	3RU11 36-4FB0		
				DC 24 V	–	3RT10 35-1BB40	AC/DC 24 V[3]	38	3RW30 35-1AB04			12.5 – 50	3RB2□3□-□UB0
22	41	36 – 45	3RV10 31-4GA10	AC 230 V, 50/60 Hz	–	3RT10 36-1AL20	AC/DC 110–230 V[3]	45	3RW30 36-1AB14	36 – 45	3RU11 36-4GB0		
				DC 24 V	–	3RT10 36-1BB40	AC/DC 24 V[3]	45	3RW30 36-1AB04				
22	41	40 – 50	3RV10 31-4HA10							40 – 50	3RU11 36-4HB0		

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

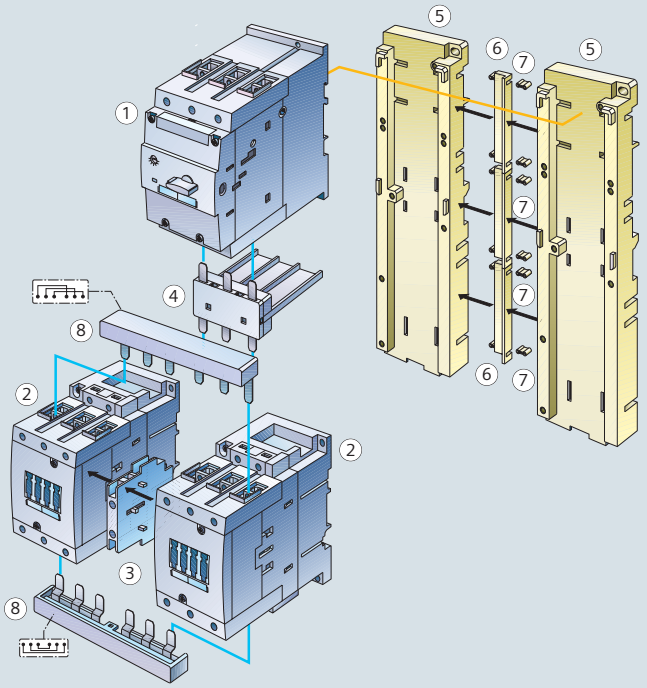
* With ground fault detection (can be activated) and electrical remote reset.

Direct start



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

Reversing start



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)

	Version	Order No.
1 Size S3 circuit breaker		
2 2, Size S3 connectors		
3 Mechanical interlock		**3RA19 24-2B**
4 Link module	AC	**3RA19 41-1AA00**
	DC	**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 wedge (1 Order No. = 100 wedges)		**8US19 98-1AA00**
8 Wiring kit: upper link module, lower link module		**3RA19 43-2A**

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			
		Setting range CLASS 10	Order No.	Control supply voltage	Auxiliary switches	Order No.	Control supply voltage	Rated operating current[1]	Order No.	Setting range CLASS 10	Thermal Order No.	Setting range	Solid-state Order No.
[kW]	[A]	[A]						*Ie*		[A]		[A]	
30	55	45 – 63	3RV10 41-4JA10	AC 230 V, 50/60 Hz	–	3RT10 44-1AL20	AC/DC 110–230 V[3]			45 – 63	3RU11 46-4JB0		
				DC 24 V	–	3RT10 44-1BB40		63	3RW30 44-1AB14				
							AC/DC 24 V[3]						
37	67	57 – 75	3RV10 41-4KA10					63	3RW30 44-1AB04	57 – 75	3RU11 46-4KB0		
				AC 230 V, 50/60 Hz	–	3RT10 45-1AL20	AC/DC 110–230 V[3]					25 – 100	3RB2□4□-□EB0
				DC 24 V	–	3RT10 45-1BB40		75	3RW30 45-1AB14				
45	80	70 – 90	3RV10 41-4LA10				AC/DC 24 V[3]			70 – 90	3RU11 46-4LB0		
								75	3RW30 45-1AB04				
				AC 230 V, 50/60 Hz	–	3RT10 46-1AL20	AC/DC 110–230 V[3]						
45	80	80 – 100	3RV10 41-4MA10	DC 24 V	–	3RT10 46-1BB40		100	3RW30 46-1AB14	80 – 100	3RU11 46-4MB0		
							AC/DC 24 V[3]						
								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 [kW]	[A]	Electromagnetic operating mechanism	Control supply voltage [AC/DC V]	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

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] *Ie* [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**	55 – 250 **3RB2☐6☐-☐GC2** with busbar connection	AC 230 V 230 **3RW40 73-6BB44**
		Electronic						AC 115 V 230 **3RW40 73-6BB34**
		– for 24 V DC PLC output	200–277	2NO + 2NC	**3RT1064-6NP36**	**3RT1264-6NP36**		AC 230 V 280 **3RW40 74-6BB44**
		– for 24 V DC PLC output w/ RLT[3)]	200–277	1NO + 1NC	**3RT1064-6PP35**	–		AC 115 V 280 **3RW40 74-6BB34**
		– 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**	–		

S12

200	400	**Conventional**	220–240	2NO + 2NC	**3RT1075-6AP36**	**3RT1275-6AP36**		AC 230 V 356 **3RW40 75-6BB44**
		Electronic						AC 115 V 356 **3RW40 75-6BB44**
		– for 24 V DC PLC output	200–277	2NO + 2NC	**3RT1075-6NP36**	**3RT1275-6NP36**		AC 230 V 432 **3RW40 76-6BB44**
		– for 24 V DC PLC output w/ RLT[3)]	200–277	1NO + 1NC	**3RT1075-6PP35**	–		AC 115 V 432 **3RW40 76-6BB34**
		– 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 (can be activated) and electrical remote reset.

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
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

SENTRON 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.

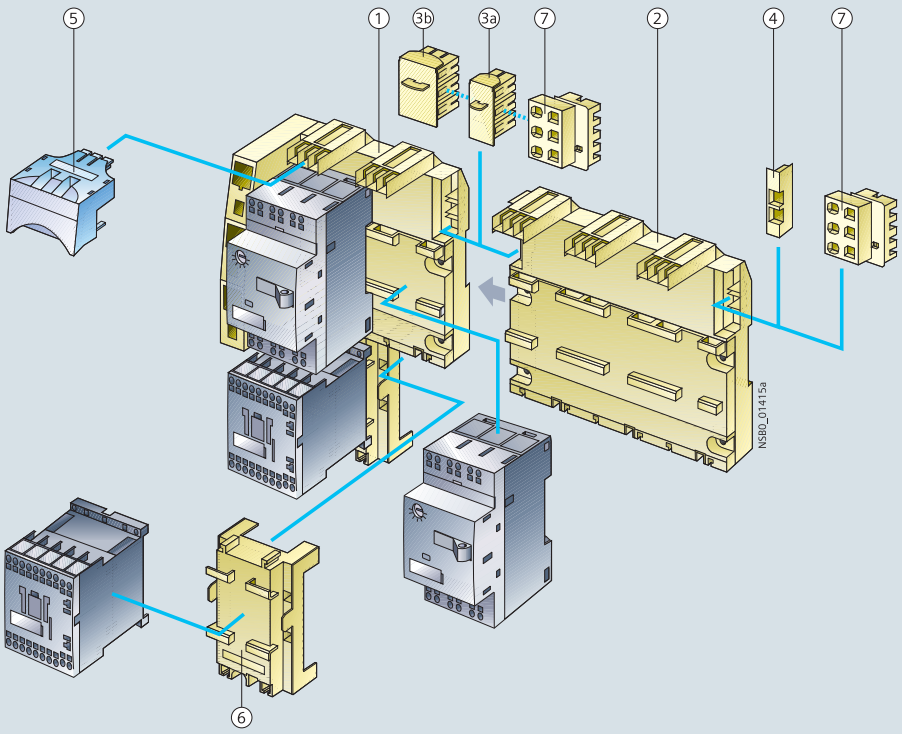
Fuseless load feeders

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		S2			
22	41	36 – 45	3RA11 30-4GB36-0AP0					
22	41	40 – 50	3RA11 30-4HB36-0AP0					

S00

S0

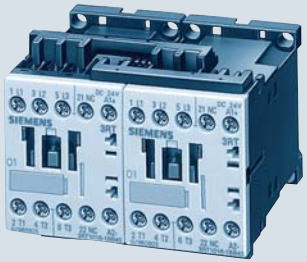
S2



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

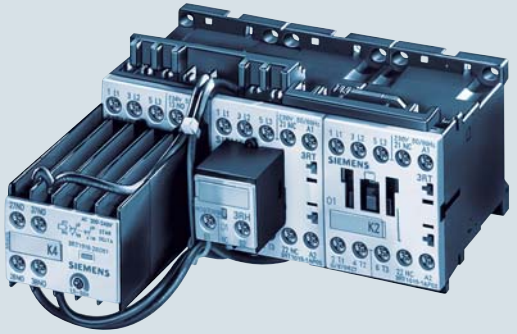
	Version	Order No.
3-phase busbars		
 1 **3-phase busbars with infeed left** incl. 3RV19 17-6A end cover	for 2 switches	**3RV19 17-1A**
3-phase busbars with infeed right incl. 3RV19 17-6A end cover	for 2 switches	**3RV19 17-1E**
 2 **3-phase busbars to expand the system** incl. 3RV19 17-5BA00 expansion 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	S0, 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		
 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 up to 45 kW



S00

Star-delta combinations up to 75 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**

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**

Safety-related load feeders

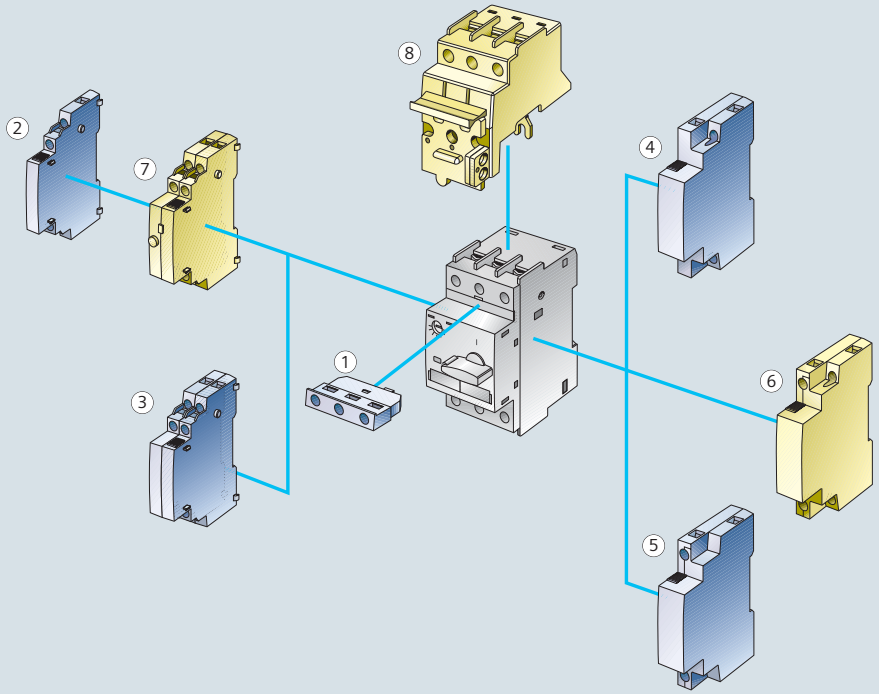
3-phase motor AC-3/400 V [kW]	[A]	Setting range, thermal overload release	Coordination type 2 230 V AC Category 3 according to EN 954-1	Coordination type 2 24 V DC	Size
0.04	0.16	0.11 – 0.16	3RA71 01-0AA17-0AL2	3RA71☐-0AA17-0AB4	
0.06	0.2	0.14 – 0.2	3RA71 01-0BA17-0AL2	3RA71☐-0BA17-0AB4	
0.06	0.2	0.18 – 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	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)

☐ 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 0.05–30 s

S00

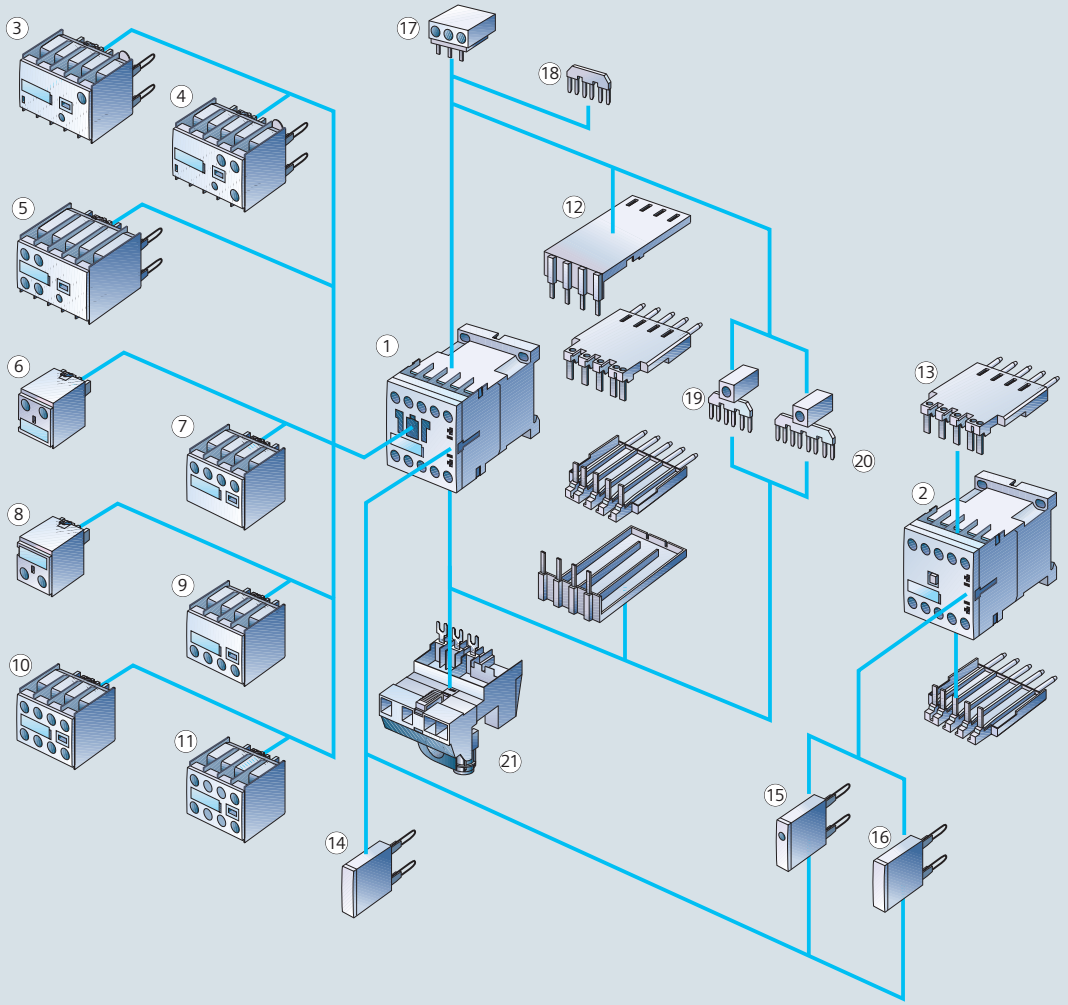
Circuit breakers



		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**

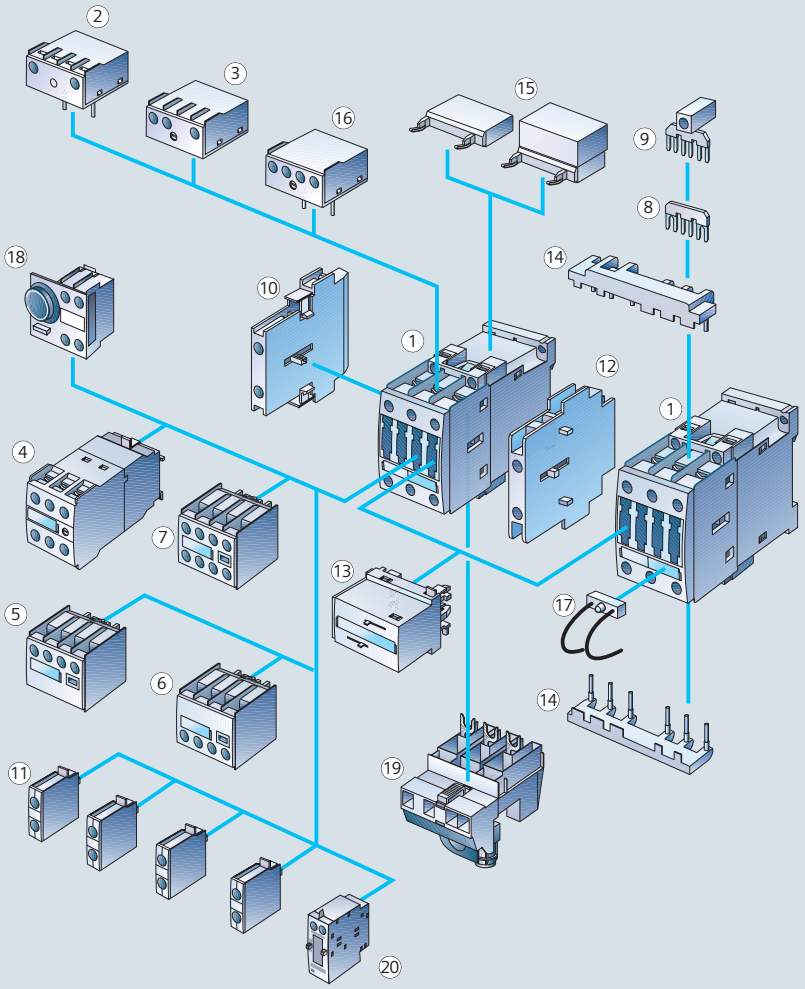
	Version		For Size	Order No.
Insulated 3-phase busbar systems				
	**3-phase busbars, modular spacing 45 mm** for 2 switches for 3 switches for 4 switches for 5 switches		S00, S0	**3RV19 15-1AB** **3RV19 15-1BB** **3RV19 15-1CB** **3RV19 15-1DB**
	Connector from S0 to S00		S00, S0	**3RV19 15-5DB**
	**3-phase 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 S00	**3RV19 13-1CA00** **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 S0	**3RV19 23-1CA00** **3RV19 23-1DA00**

Contactors S00



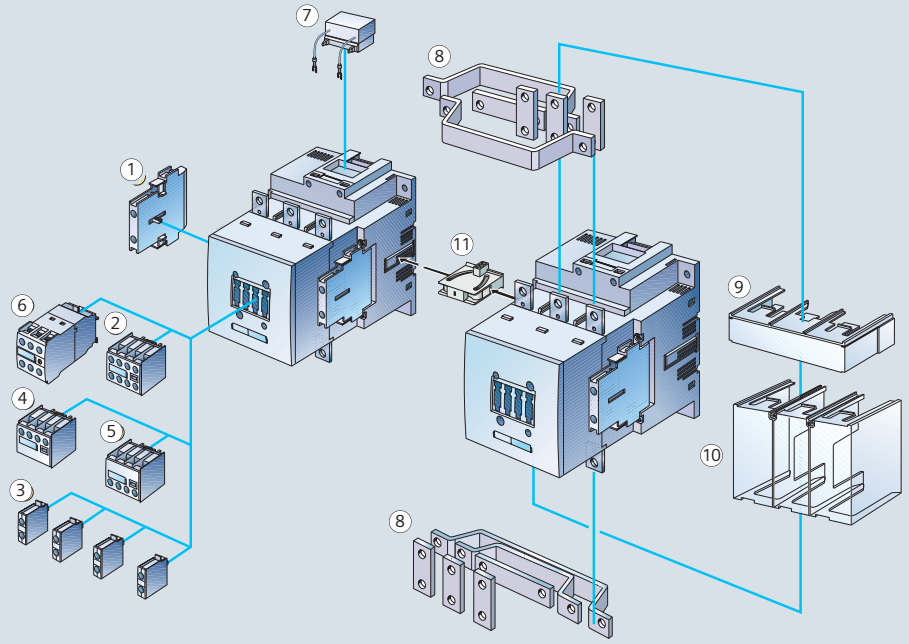
		Version	Order No.
1	Contactor (example) control supply voltage	4 kW/400 V, 1NO 230 V, 50/60 Hz	**3RT10 16-1AP01**
2	Coupling relay (example) control supply voltage	4 kW/400 V, 1NO 230 V, 50/60 Hz	**3RT10 16-1HB41**
3	Solid-state time delay block ON delay	0.5 – 10 s	**3RT19 16-2CH21**
4	Solid-state time 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 contactors with 4-pole auxiliary switch block	for 4 contactors (package)	**3RT19 16-4KA2**
13	Solder pin adapter for contactors and coupling relays	for 4 contactors (package)	**3RT19 16-4KA1**
14	Additional load module, for an increase of the permissible residual current	AC 180 – 255 V, 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 contactors with screw-type connection	AC-3/400 V: 20 A	**3RT19 16-4RD01**

Contactors S0 – S3



		Version	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 element, 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 plug) 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**

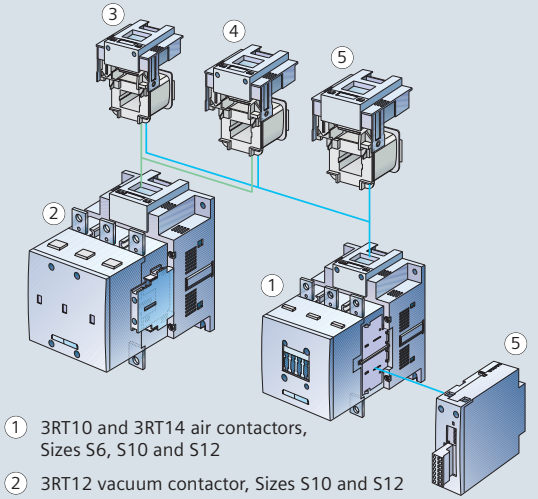
Contactors S6 – S12



		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	Single-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	Terminal cover for box terminals	for S6	**3RT19 56-4EA2**
		for S10/S12	**3RT19 66-4EA2**
10	Connection 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 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**
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 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 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 mm²	S6	**3RT19 55-4G**
	to 120 mm²	S6	**3RT19 56-4G**
	to 240 mm²	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
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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