

# Click 'n' Go: SIRIUS Modular System



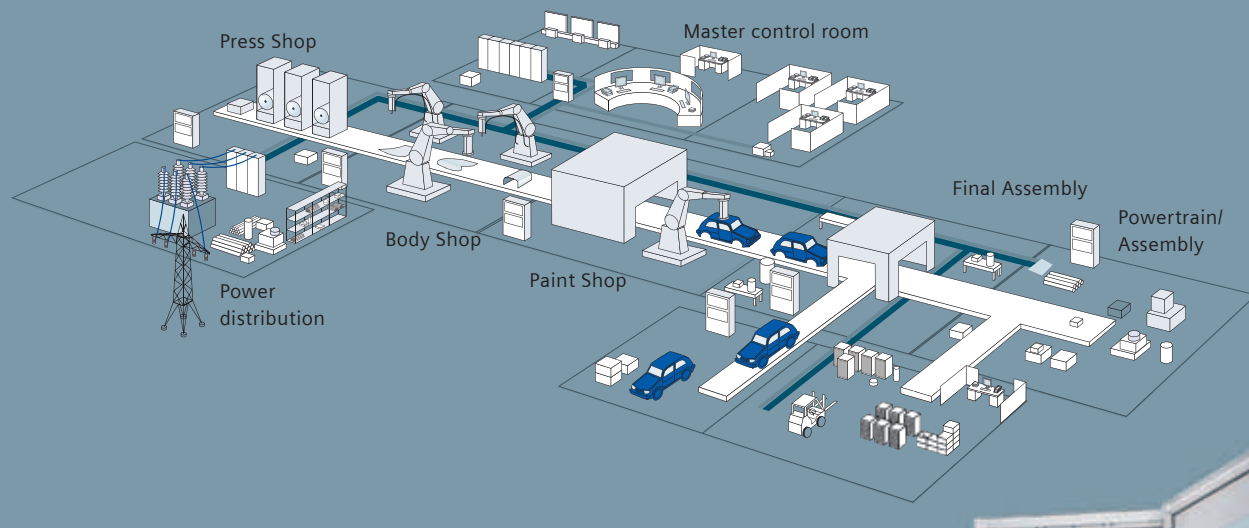
## SIRIUS

Highly flexible system-based switching, protecting and starting.

Answers for industry.

**SIEMENS**

# Everything for the electrical cabinet: SIRIUS Modular System.



## Everything. Easy. SIRIUS

Key functions like Pressing, equipping, transporting 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.



## Contents

<b>SIRIUS Modular System</b>	<b>2</b>
An overview and components of modular system	
<b>Load feeders</b>	<b>6</b>
<b>SIRIUS suitable for every application</b>	<b>7</b>
<b>Size S00 Selection and Ordering Data up to 7.5 kW</b>	<b>10</b>
Motor protection circuit breakers, contactors, soft starters, overload relays, Current Monitoring Relay	
<b>Size S0 Selection and Ordering Data up to 18.5 kW</b>	<b>12</b>
Motor protection circuit breakers, contactors, soft starters, overload relays, Current Monitoring Relay	
<b>Size S2 Selection and Ordering Data up to 22 kW</b>	<b>16</b>
Motor protection circuit breakers, contactors, soft starters, overload relays	
<b>Size S3 Selection and Ordering Data up to 45 kW</b>	<b>18</b>
Motor protection circuit breakers, contactors, soft starters, overload relays	
<b>Size S6, S10, S12 Selection and Ordering Data up to 250 kW</b>	<b>20</b>
Contactors, soft starters, overload relays	
<b>Selection and ordering data</b>	<b>22</b>
Auxiliary contactors, Latched contactor relays, Low power consumption coil contactors, AC1 duty contactors, 4-pole contactors, communication capable contactors, function modules, busbar adapters	
<b>Accessories</b>	<b>27</b>

# Everything. System-based. SIRIUS Modular System.

How to realize fast, easy, flexible and space-saving control cabinet assembly? With the unique SIRIUS modular system, which offers everything required for the switching, protection and starting of motors and systems. It comprises a modular range of standard components up to 250 kW / 415 V in only seven optimally matched sizes which can be easily combined and utilize largely identical accessories. Switching technology made easy!

The permanent advancement and continuous innovation of SIRIUS optimally prepare our customers for current and future requirements and provide them with efficient solutions. All components of the SIRIUS modular system are characterized by their space-saving design and high degree of flexibility. Configuration, installation, wiring and maintenance can be realized easily and in minimum time. No matter whether you want to assemble load feeders with circuit breakers or overload relays, contactors / solid-state contactors, reversing contactors or soft starters – SIRIUS offers the suitable product for every application.

Thanks to the latest innovations of sizes S00 and S0 up to 40 A, the SIRIUS modular system now offers even more functional diversity:

In addition to the basic components (such as contactors, circuit breakers and overload relays), the innovated SIRIUS modular system offers unprecedented highlights:

- **Spring loaded terminals:** Spring loaded terminals provide the key benefits like less assembly / disassembly time, very high termination reliability, shock and vibration proof terminals
- **Direct mounting of monitoring relays:** First time in industry you have a choice to mount the current monitoring relay directly on the contactor
- **Function Modules:** Function module can be directly mounted onto the contactor for the easy assembly of direct on line, reversing and star delta starters. They replace the need of control wiring and auxiliary contacts
- **Communication capability:** SIRIUS innovation is the first to offer communication capable contactors with open communication protocols like AS-i and IO link

Circuit breakers



Contactors



Overload relays



Soft starters



# Overview of the Numerous Advantages Offered by the SIRIUS Modular System.

With its manifold components, the SIRIUS modular system covers various functions for control cabinet applications and offers numerous advantages in terms of assembly and handling, application monitoring, connection to the control as well as planning and configuration.

## Assembly and handling:

Reduced wiring expenditures and fault avoidance – with maximum flexibility

- **Load feeders:** Easy realization with standard devices up to 250 kW / 415 V
- **Modular system:** All devices in same frame size have same width and terminal orientation that results into a seamless feeder
- **Versions and sizes:** Efficiency and flexibility with only 7 sizes covering upto 250kW
- **Accessories:** Only 2 groups of accessories for 7 frame sizes
- **Assembly:** Easy wiring, short setup time, fast commissioning
- **Mounting:** Choice of screw and DIN rail mounting
- **Spring-loaded connection system:** Fast and safe connection, vibration-proof and with zero maintenance
- **Reduced wiring:** 1) Power wiring - Thanks to 8US and connecting links  
2) Control wiring - Thanks to function module that can replace all control wiring

## Application control:

Improved operational reliability and system availability

- **Maintenance:** Extremely long service life, low maintenance due to high reliability
- **Application monitoring:** Flexibly integrated in the feeder thanks to current monitoring relay

## Connection to the control:

Optimum integration in the automation environment

- **Communication:** Standardized connection to AS-Interface, IO-Link and PROFIBUS DP possible

## Planning and configuration:

Eased system planning and documentation

- **System planning:** Easy and fast thanks to comprehensive CAx data provision
- **Environment:** ROHS compliant
- **Design:** Clear and ergonomic, awarded with the iF Product Design Award
- **Configurator:** For easy product selection, including accessories
- **Global acceptability:** Thanks to comprehensive approvals





# Switching. Protecting. Starting.

## The components of the SIRIUS Modular System.



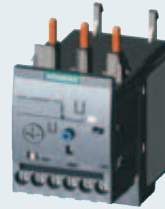
### **Far more than ON/OFF: SIRIUS 3RV motor protection circuit breaker**

SIRIUS 3RV motor protection circuit breaker (MPCB) 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 and safely disconnecting the plant or system from the line supply when service is being carried out or changes are being made. SENTRON 3VL circuit breakers are suitable for applications above 100 A. As infeed and load feeder breaker, they protect plants and motors against short circuit and overload.



### **Rugged and reliable: SIRIUS 3RT contactors**

You can easily find what you require in this complete family with only seven sizes for the power range up to 250kW/415V. Secondly-you can completely depend on SIRIUS contactors- and we mean completely. These benefits distinguish themselves due to high operational reliability, long lifetime, always the best electrical contacts and the rugged character - even at high ambient temperatures. It goes without saying that the contactors have everything that you expect from the SIRIUS system.



### **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 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.



### **Easy application monitoring: SIRIUS 3RR2 current monitoring relays**

The SIRIUS current monitoring relays not only monitor the motor, but the entire system or driven process for overcurrent and undercurrent, cable breakage and phase failure. For example, load shedding or overload of an application is promptly detected and signaled at an early stage. Sizes S00 and S0 of the 3RR2 current monitoring relay are directly integrated in the load feeder. They simply have to be plugged onto the contactor.



### **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 (@ 415 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. Also the complete range of SIRIUS 3RW soft starter has built-in bypass contacts due to which an separate external bypass contactor is not required. Device versions up to a rating of 250 kW (@ 415 V) are available: Thermistor motor protection evaluation, 400–600 V.

# Switching. Protecting. Starting.

## The components of the SIRIUS Modular System.



Straight ahead:  
The 3RA21 direct starter



Phases interchanged:  
The 3RA22 reversing starter



Two stages – one start:  
The 3RA24 star-delta  
combination

### Ready for immediate use: Pre-wired SIRIUS load feeders

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

- Direct starters up to 22 kW – the optimum starter combination for all motors.
- Reversing starters up to 45 kW – the matching combination for reversing motors.
- Star-delta combinations up to 75 kW – the solution for running-up motors in stages.
- Soft starters – when soft starting and stopping is required.

# Everything Easy: SIRIUS suitable for every application

## Auxiliary contactors



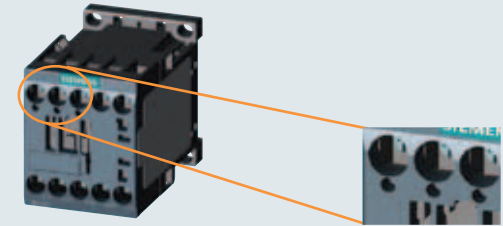
SIRIUS auxiliary contactors reliably control output signals and interlock switching devices in control and auxiliary circuits. Cross-ribbing technique ensures high contact reliability.

## 3-pole contactor



The 3RT 3-Pole AC3 duty contactors are the optimum choice to control three-phase motors. With just two sizes, they cover a power range from 3 to 250kW / 415V for AC and DC control

## 3 Pole contactor with communication interface



The S00 and S0 3P contactors with communication interface are capable to communicate through IO link or AS-Interface. The desired function module can be directly mounted on the communication capable contactor.

## 4-pole contactors



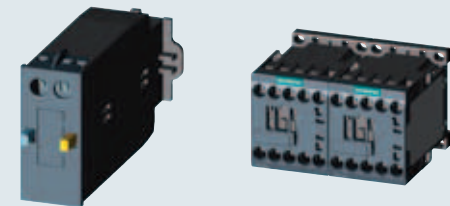
3RT contactor is available in 4NO & 2NO+2NC configuration for power contactors. 4NO configuration is ideally suitable for switching the source requiring neutral isolation. Changing the polarity of hoisting gear motors can be easily met with use of 2NO+2NC configuration with just one contactor. Two separate loads can be switched by 2NO+2NC contactors thus saving cost of additional contactor.

## Low consumption coils



SIRIUS range of low-consumption coil contactors consume power as low as 1.6kW @ 24V DC. Hence, these can be directly driven by PLC output, thus eliminating use of interposing relays. These contactors come with built-in surge suppressor and a wide operating range of 0.7–1.25 x  $U_s$ .

## Latch block & latched contactor relay



Critical applications might require the process to continue even after failure of control voltage. The contactor is designed to remain in ON state even on failure of control voltage ensuring less downtime. This is achieved by mechanical latch.

# Everything Easy: SIRIUS suitable for every application

## 3-pole vacuum contactors



Due to its significant high electrical life 3RT12 vacuum contactors become an ideal choice for applications where low downtime is crucial. Suitability of switching upto 1000V offer another application area for these contactors.

## Capacitor duty contactors



When it comes to switching power capacitors, the 3RT16 capacitor contactors are the best choice.

## 3-pole AC-1 duty contactors



The high performance 3RT14 AC-1 contactors are in their element everywhere resistive rated currents have to be switched. 3RT14 offers an economical choice for applications involving AC-1 duty switching such as heater loads, soft starter bypass or VFD switching. Solid state coil is available for contactors from 9A to 38A and 115A to 500A

## Withdrawable coil



Replacement of the magnetic coil of a contactor can be cumbersome, especially for big contactors. This might lead to larger down times which is not affordable in processing industries. SIRIUS contactors for large sizes viz., S6 to S12 (115A onwards to 500A) have withdrawable coils which can be replaced within no time and without the use of any special tools. Moreover these coils are suitable for AC 50/60Hz or DC. Thus reducing the cost of inventory.

## Solid state coil (Universal coil)



Large size contactors cannot be driven directly by a PLC output as the 'VA' burden of the coil is too large. Generally, a relay board is used as an interface between the PLC and the contactor coil. SIRIUS range of contactors with solid state coil have the required electronics imbedded within the contactor to be controlled directly by the PLC. This eliminates the need of the interface module, thereby saving cost.

## Remaining lifetime indicator (RLT)



The degree of contact erosion is not merely the number of ON/OFF operations, it depends on the loading, operating mode, etc. To avoid unforeseen down times in a plant, the erosion of the contacts have to be monitored regularly. SIRIUS contactor with remaining lifetime indication takes over this task. It electronically identifies, evaluates and stores the actual progress of erosion of the main contacts and outputs a warning when specified limits are reached.

# Everything Easy: SIRIUS suitable for every application

## Function module



The function modules for mounting onto the contactors enable the assembly of starters and contactor assemblies for direct-on-line, reversing and star-delta starting without any additional, complicated wiring of the individual components. They include the key control functions required for the particular feeder, e.g. timing and interlocking, and can be connected to the control system by either parallel wiring or through IO-Link or AS-Interface (available only for S00, S0 contactors 3RT2).

## 3RB micro-processor relay



SIRIUS 3RB range of Microprocessor based motor protection relays offer protection for motors against various faults viz., overload, phase failure, earth fault, etc. The higher end 3RB relays with large setting (1:10) also offer thermistor protection. They are modular in design and can accommodate add on modules such as internal earth fault protection module, analog output module, overload warning module, ground fault signalling module, etc.

## 3RR Current monitoring relays



The 3RR2 current monitoring relays monitor current for overshoot, undershoot and range monitoring without the need of having a separate current transformer. In addition to this, it can be used for phase sequence monitoring, monitoring of phase failure, monitoring of residual current and motor blocking. The load factor over a motor's entire torque range can be evaluated as well. Direct mounting possibility on 3RT2 contactors and variety of the wide supply voltage options make it further attractive solution to the customer.

## Motor protection circuit breaker 3RV



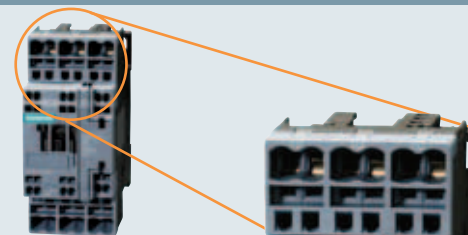
3RV motor protection circuit breakers are available in size S00, S0, S2 and S3 upto 100A. They can protect motors upto 45kW. **The entire range is having rotary knob.** The motor protection circuit breaker is available in 3 types, viz "standard type", "Mag Only" type and "relay function type".

## Coupling link for control by PLC



The output signal of a PLC is not strong enough to switch on a contactor coil. SIRIUS coupling link can be used to overcome this shortfall. The coupling link is mounted onto the coil terminals of the contactor. The PLC signal switches ON coupling link which in turn energizes the coil of the contactor. Thus saving cost of an additional interposing relay.

## Spring type terminals



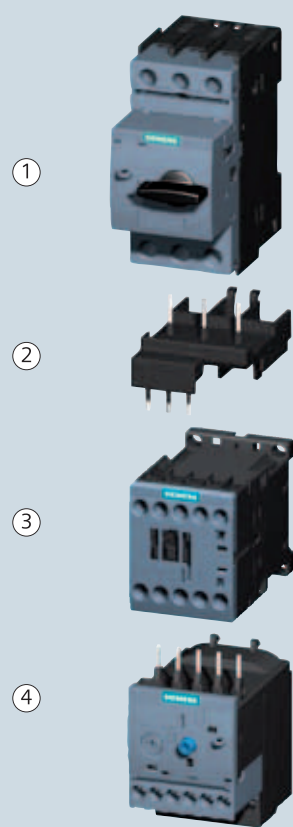
Sirius devices are available with spring type terminals as an option. The key advantage with spring loaded type terminals are :

- Short assembly / disassembly time
- Very high contact reliability
- Shock and vibration proof
- Easy removal of the conductor during maintenance



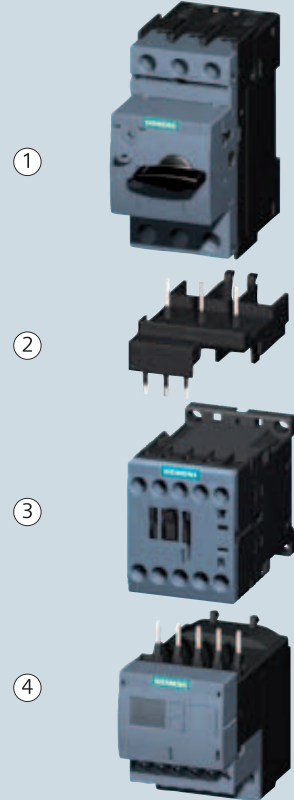
# Design up to 7.5 kW (S00) for non-fused, switching

Starter combinations of motor protection circuit breaker and contactor with overload relay



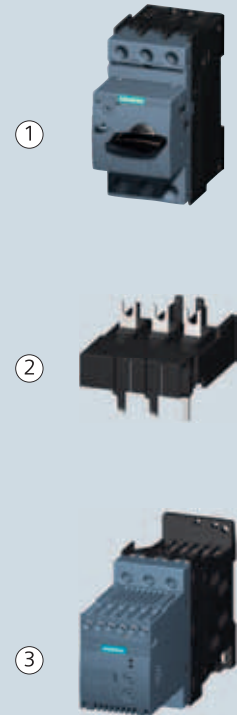
Type	Screw connection	Spring-loaded connection
① Motor protection circuit breaker		
② Link module	3RA1921-1DA00	3RA2911-2AA00
③ Contactor (AC / DC)		
④ Overload relay		

Starter combinations of motor protection circuit breaker and contactor with optional current monitoring relay



Type	Screw connection	Spring-loaded connection
① Motor protection circuit breaker		
② Link module	3RA1921-1DA00	3RA2911-2AA00
③ Contactor (AC / DC)		
④ Overload relay		

Starter combinations:  
Motor protection circuit breaker and soft starter



Type	Screw connection	Spring-loaded connection
① Motor protection circuit breaker		
② Link module	3RA2921-1BA00	3RA2911-2GA00
③ Soft starter		

Starter combinations: Motor protection circuit breaker, contactor with overload relay



3-ph motor 415 V/AC-3 [kW] [A]	MPCB for starter protection		Contactor	Overload relay <sup>1)</sup> (CLASS 10)			Soft starter <sup>1)</sup>		Current monitoring relay <sup>1)</sup>
	Setting range [A]	Order no.	Order no. (with 1NO)	Setting range [A]	Order no. Thermal	Order no. Electronic	Order no.	Rated current A	Order no.
0.04 0.16	0.11 – 0.16	3RV2011-0AA10	AC 230 V, 50/60 Hz	0.11 – 0.16	3RU2116-0A00	3RB3016-1R00 (0.1 – 0.4 A)	AC/DC 110 – 230 V		1.6-16A analog setting 3RR2141-1A030 digital setting 3RR2241-1F030
0.06 0.2	0.14 – 0.2	3RV2011-0BA10		0.14 – 0.2	3RU2116-0B00				
0.06 0.25	0.18 – 0.25	3RV2011-0CA10		0.18 – 0.25	3RU2116-0C00		3RW3013-1BB14 3.6		
0.09 0.32	0.22 – 0.32	3RV2011-0DA10		0.22 – 0.32	3RU2116-0D00				
0.09 0.4	0.28 – 0.4	3RV2011-0EA10		0.28 – 0.4	3RU2116-0E00		AC/DC 110 – 230 V		
0.12 0.5	0.35 – 0.5	3RV2011-0FA10		0.35 – 0.5	3RU2116-0F00				
0.18 0.63	0.45 – 0.63	3RV2011-0GA10		0.45 – 0.63	3RU2116-0G00		AC/DC 24 V		
0.18 0.8	0.55 – 0.8	3RV2011-0HA10		0.55 – 0.8	3RU2116-0H00				
0.25 1	0.7 – 1	3RV2011-0JA10		0.7 – 1	3RU2116-0J00		AC/DC 110 – 230 V		
0.37 1.25	0.9 – 1.25	3RV2011-0KA10		0.9 – 1.25	3RU2116-0K00				
0.55 1.6	1.1 – 1.6	3RV2011-1AA10	1.1 – 1.6	3RU2116-1A00	AC/DC 24 V				
0.75 2	1.4 – 2	3RV2011-1BA10	1.4 – 2	3RU2116-1B00			3RW3016-1BB04 9		
0.75 2.5	1.8 – 2.5	3RV2011-1CA10	1.8 – 2.5	3RU2116-1C00	AC/DC 110 – 230 V				
1.1 3.2	2.2 – 3.2	3RV2011-1DA10	2.2 – 3.2	3RU2116-1D00			3RW3017-1BB14 12.5		
1.5 4	2.8 – 4	3RV2011-1EA10	2.8 – 4	3RU2116-1E00	AC/DC 24 V				
1.5 5	3.5 – 5	3RV2011-1FA10	3.5 – 5	3RU2116-1F00			3RW3016-1S00 (3 – 12 A)		
2.2 6.3	4.5 – 6.3	3RV2011-1GA10	4.5 – 6.3	3RU2116-1G00	AC/DC 110 – 230 V				
3 8	5.5 – 8	3RV2011-1HA10	5.5 – 8	3RU2116-1H00			3RW3017-1BB14 12.5		
4 10	7 – 10	3RV2011-1JA10	7 – 10	3RU2116-1J00	AC/DC 24 V				
5.5 12.5	9 – 12.5	3RV2011-1KA10	9 – 12.5	3RU2116-1K00			3RW3017-1BB04 12.5		
7.5 16	11 – 16	3RV2011-4AA10	11 – 16	3RU2116-4A00	AC/DC 110 – 230 V				
							3RW3018-1BB14 17.6		
					AC/DC 24 V				
							3RW3018-1BB04 17.6		
					</				

<sup>1)</sup> Direct mounting on contactor, screw and spring-loaded connection possible

Spring-loaded connection: 2

Spring-loaded connection: 2  
1NC: 2

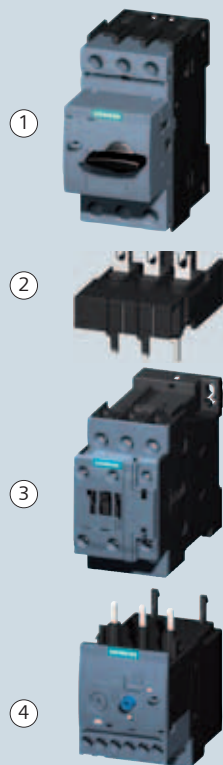
Spring-loaded connection: C

Spring-loaded connection: E

Spring-loaded connection: 2  
W : AC/DC 24 – 240 V

## Design up to 18.5 kW (S0) for non-fused, electromechanical switching

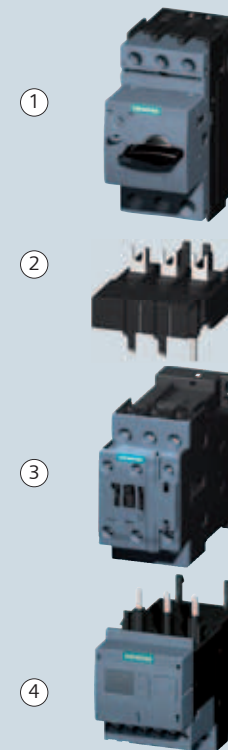
**Starter combinations:**  
Motor protection circuit breaker,  
contactor and overload relay



Type	Screw connection		Spring-loaded connection
① Motor protection circuit breaker			
② Link module <sup>1)</sup>	AC	3RA2921-1AA00	3RA2921-2AA00
	DC	3RA2921-1BA00	3RA2921-2AA00
③ Contactor			
④ Overload relay			

<sup>1)</sup> Only suitable up to 32 A

**Starter combinations:**  
Motor protection circuit breaker, contactor  
with optional current monitoring relay



Type	Screw connection		Spring-loaded connection
① Motor protection circuit breaker			
② Link module <sup>1)</sup>	AC	3RA2921-1AA00	3RA2921-2AA00
	DC	3RA2921-1BA00	3RA2921-2AA00
③ Contactor			
④ Current monitoring relay			

<sup>1)</sup> Only suitable up to 32 A

# S0 selection and ordering data

Starter combinations:  
Motor protection circuit breaker,  
contactor and overload relay



Three-phase motor 415V/AC-3 [kW] [A]		Motor protection circuit breaker for starter protection		Contactor				Overload relay			
		Thermal overload release	Order no.	Aux. contacts	Order no.	Order no.	Order no.	Setting range CLASS 10 [A]	Order no. Thermal	Setting range CLASS 10 [A]	Order no. Electronic
7.5	16	–	3RV2321-4AC10	1NO+1NC	3RT2025-1BB40	3RT2025-1AL20	3RT2025-1N30	11 – 16	3RU2126-4A0		
7.5	20	–	3RV2321-4BC10					14 – 20	3RU2126-4B0	6 – 25	3RB3026-1Q0
11	22	–	3RV2321-4CC10	1NO+1NC	3RT2026-1BB40	3RT2026-1AL20	3RT2026-1N30	17 – 22	3RU2126-4C0		
11	25	–	3RV2321-4DC10					20 – 25	3RU2126-4D0		
15	28	–	3RV2321-4NC10	1NO+1NC	3RT2027-1BB40	3RT2027-1AL20	3RT2027-1N30	23 – 28	3RU2126-4N0	10 – 40	3RB3026-1V0
15	32	–	3RV2321-4EC10					27 – 32	3RU2126-4E0		
18.5	36	–	3RV2321-4PC10	1NO+1NC	3RT2028-1BB40	3RT2028-1AL20	3RT2028-1N30	30 – 36	3RU2126-4P0		
18.5	40	–	3RV2321-4FC10					34 – 40	3RU2126-4F0		

Spring-loaded connection <sup>2)</sup>: 2

Spring-loaded connection: 2

UC 21 – 28 V: B  
UC 95 – 130 V: F  
UC 200 – 280 V: P

Spring-loaded connection: C

Spring-loaded connection: E

Starter combinations:  
Motor protection circuit breaker, contactor with optional current monitoring relay

Three-phase motor 415V/AC-3 [kW] [A]		Motor protection circuit breaker for motor protection		Contactor				Current monitoring relay		
		Thermal overload release [A]	Order no.	Aux. contacts	Order no.	Order no.	Order no.	Measurement range [A]	Order no. Basic (analog setting)	Order no. Standard (digital setting)
7.5	16	11 – 16	3RV2021-4AA10	1NO+1NC	3RT2025-1BB40	3RT2025-1AL20	3RT2025-1N30			
7.5	20	14 – 20	3RV2021-4BA10							
11	22	17 – 22	3RV2021-4CA10	1NO+1NC	3RT2026-1BB40	3RT2026-1AL20	3RT2026-1N30			
11	25	20 – 25	3RV2021-4DA10							
15	28	23 – 28	3RV2021-4NA10	1NO+1NC	3RT2027-1BB40	3RT2027-1AL20	3RT2027-1N30			
15	32	27 – 32	3RV2021-4EA10							
18.5	36	30 – 36	3RV2021-4PA10	1NO+1NC	3RT2028-1BB40	3RT2028-1AL20	3RT2028-1N30	4 – 40	3RR2142-1A30	3RR2242-1F30
18.5	40	34 – 40	3RV2021-4FA10							

Spring-loaded connection <sup>2)</sup>: 2

Spring-loaded connection: 2

UC 21 – 28 V: B  
UC 95 – 130 V: F  
UC 200 – 280 V: P

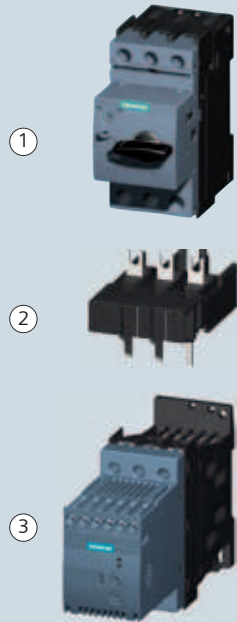
Spring-loaded connection: 2  
AC/DC 24 V: A  
AC/DC 24 – 240 V: W

<sup>2)</sup> Max. 32 A

## Design up to 18.5 kW (S0) for non-fused, electronic switching

### Starter combinations:

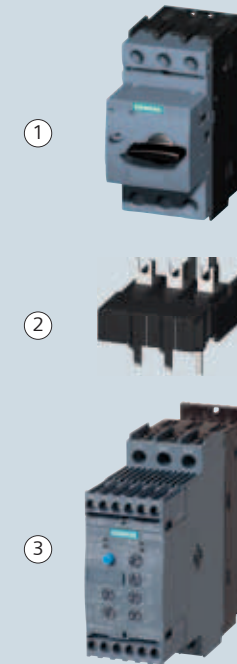
Motor protection circuit breaker and 3RW30 soft starter



Type	Screw connection	Spring-loaded connection
① Motor protection circuit breaker		
② Link module <sup>1)</sup>	3RA2921-1BA00	3RA2921-2GA00
③ Soft starter		

### Starter combinations:

Motor protection circuit breaker and 3RW40 soft starter  
(integrated electronic overload relay)



Type	Screw connection	Spring-loaded connection
① Motor protection circuit breaker		
② Link module <sup>1)</sup>	3RA2921-1BA00	3RA2921-2GA00
③ Soft starter		



# S0 selection and ordering data

Starter combinations: Motor protection circuit breaker, 3RW30 soft starter with optional current monitoring relay



Three-phase motor 415 V/AC-3		Motor protection circuit breaker for motor protection	Soft starter <sup>1)</sup>		Current monitoring relay		
		Setting range, thermal overload release CLASS 10	Order no.	Rated operating current	Order no.	Order no.	Order no.
[kW] [A]		[A]			Control supply voltage	Measurement range	Basic (analog setting)
					AC/DC 24 V AC/DC 110 – 230 V		Standard (digital setting)
11	22	17 – 22	3RV2021-4CA10	25	3RW3026-1BB04 3RW3026-1BB14	4 – 40	3RR2142-1A30 3RR2242-1F30
11	25	20 – 25	3RV2021-4DA10				
15	28	23 – 28	3RV2021-4NA10	32	3RW3027-1BB04 3RW3027-1BB14		
15	32	27 – 32	3RV2021-4EA10				
18.5	36	30 – 36	3RV2021-4PA10	38	3RW3028-1BB04 3RW3028-1BB14		
18.5	40	34 – 40	3RV2021-4FA10				
18.5	40	34 – 40	3RV2021-4FA10	45	3RW3036-1BB04 3RW3036-1BB14		

Starter combinations: Motor protection circuit breaker, 3RW40 soft starter (integrated electronic overload relay) with optional current monitoring relay



Spring-loaded connection: 2  
up to 32 A

Spring-loaded connection: 2



Spring-loaded connection: 2  
AC/DC 24 V: A  
AC/DC 24 – 240 V: W



Three-phase motor 415 V/AC-3		Motor protection circuit breaker for starter protection	Soft starter <sup>1)</sup>		Current monitoring relay		
		Setting range of thermal overload release CLASS 10	Order no.	Rated operating current	Order no.	Order no.	Order no.
[kW] [A]		[A]			Control supply voltage	Measurement range	Basic (analog setting)
					AC/DC 24 V AC/DC 110 – 230 V		Standard (digital setting)
5.5	12.5	–	3RV2311-1KC10	12.5	3RW4024-1BB04 3RW4024-1BB14	4 – 40	3RR2142-1A30 3RR2242-1F30
7.5	16	–	3RV2321-4AC10				
7.5	20	–	3RV2321-4BC10				
11	22	–	3RV2321-4CC10	25	3RW4026-1BB04 3RW4026-1BB14		
11	25	–	3RV2321-4DC10				
15	28	–	3RV2321-4NC10	32	3RW4027-1BB04 3RW4027-1BB14		
15	32		3RV2321-4EC10				
18.5	36		3RV2321-4PC10				
18.5	40		3RV2321-4FC10	38	3RW4028-1BB02 –		

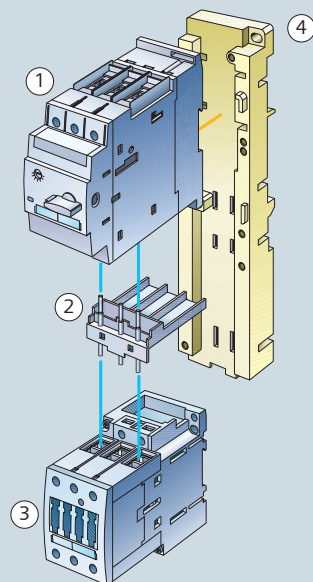
<sup>1)</sup> Operating voltage 200 – 480 V

Screw connection: 1  
Spring-loaded connection: 2  
up to 32 A

Spring-loaded connection: 2

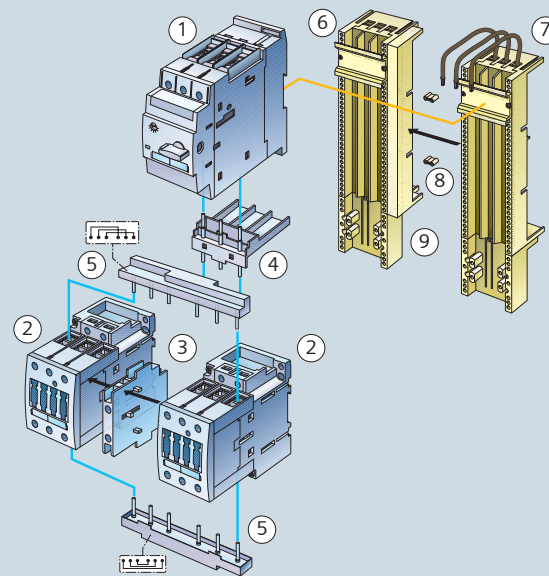
Spring-loaded connection: 2  
AC/DC 24 V: A  
AC/DC 24 – 240 V: W

## Direct start

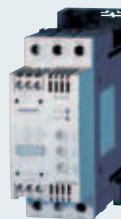


	Version	Order No.
①	Size S2 circuit breaker	
②	Link module AC DC	3RA19 31-1AA00 3RA19 31-1BA00
③	Size S2 contactor	
<b>For busbar mounting (alternative)</b>		
Busbar adapter	40 mm 60 mm	8US10 61-5FP08 8US12 61-5FP08
<b>For rail mounting (diagram)</b>		
④	Rail adapter	3RA19 32-1AA00

## Reversing start



	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
<b>For busbar mounting (diagram)</b>		
⑥	Controlgear support 60 mm	8US12 60-5AP00
⑦	Busbar adapter 60 mm	8US12 61-5FP08
⑧	Link wedges (1 Order No. = 100 wedges)	8US19 98-1AA00
⑨	Side module	8US19 98-2BM00
<b>For rail mounting (alternative)</b>		
Rail adapter		3RA19 32-1AA00
Link wedges (1 Order No. = 100 wedges)		8US19 98-1AA00



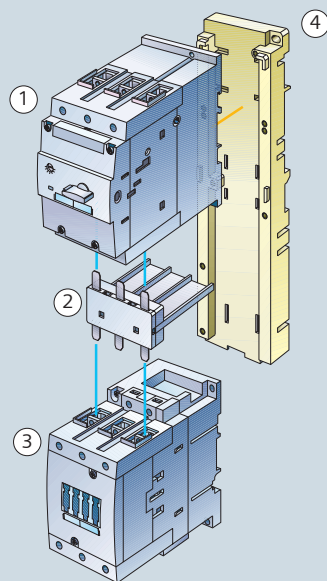
3-phase motor AC-3/415 V		Circuit breakers (MPCB)		Contactors			Soft starters			Overload relays			
		Setting range Class 10	Order No.	Control supply voltage	AC3 [A]	Auxiliary contacts	Order No.	Control supply voltage	Rated operating current I <sub>e</sub> [A]	Order No.	Setting range Class 10	Thermal Order No.	Setting range
[kW]	[A]	[A]										[A]	
15	29	22 – 32	3RV10 31-4EA10	AC	32	–	3RT10 34-1A..0				22 – 32	3RU11 36-4EB0	
				DC	32	–	3RT10 34-1B..0	110–230 V AC/DC					
								32	3RW30 34-1AB14				
18.5	35	28 – 40	3RV10 31-4FA10					24 V AC/DC			28 – 40	3RU11 36-4FB0	
				AC	40	–	3RT10 35-1A..0		32	3RW30 34-1AB04			
				DC	40	–	3RT10 35-1B..0	110–230 V AC/DC					
22	41	36 – 45	3RV10 31-4GA10						45	3RW30 36-1AB14	36 – 45	3RU11 36-4GB0	
								24 V AC/DC					
				AC	50	–	3RT10 36-1A..0		45	3RW30 36-1AB04			
22	41	40 – 50	3RV10 31-4HA10	DC	50	–	3RT10 36-1B..0				40 – 50	3RU11 36-4HB0	

CLASS 10 ☐0 ☐6 ☐1CLASS 5...30\* ☐1 ☐3 ☐4

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

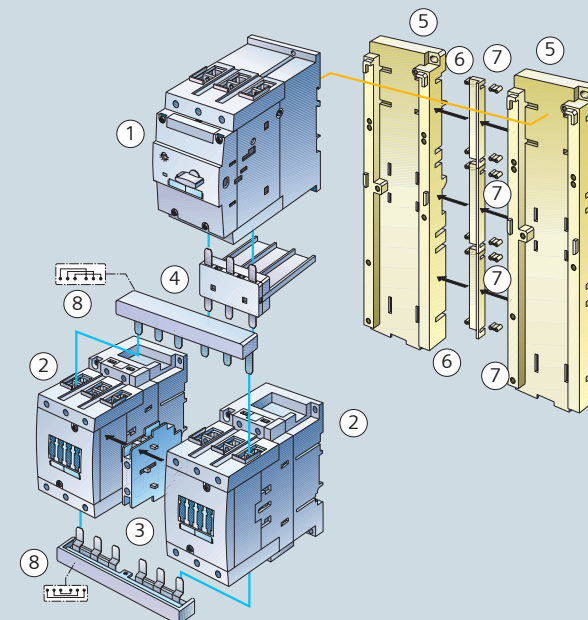
Coil Codes: AC : C2-24V 50/60 Hz, G2-110V 50/60 Hz, L2-230V 50/60 Hz, V0-400V 50 Hz  
DC : B4-24VDC, F4-110VDC, M4-220VDC

## 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



	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

# S3 selection and ordering data



3-phase motor AC-3/415 V [kW] [A]	Circuit breakers (MPCB)		Contactors				Soft starters			Overload relays			
	Setting range Class 10 [A]	Order No.	Control supply voltage	AC3 [A]	Auxiliary contacts	Order No.	Control supply voltage	Rated operating current I <sub>e</sub> [A]	Order No.	Setting range Class 10 [A]	Thermal Order No.	Setting range [A]	Electronic Order No.
30 55	42 – 63	3RV10 41-4JA10	AC	65	–	3RT10 44-1A..0	110–230 V AC/DC	63	3RW30 44-1AB14	45 – 63	3RU11 46-4JB0		
			DC	65	–	3RT10 44-1B..0							
37 67	57 – 75	3RV10 41-4KA10	AC	80	–	3RT10 45-1A..0	24 V AC/DC	63	3RW30 44-1AB04	57 – 75	3RU11 46-4KB0	25 – 100	3RB2□4□□EB0
							110–230 V AC/DC						
45 80	70 – 90	3RV10 41-4LA10	AC	95	–	3RT10 46-1A..0	24 V AC/DC	100	3RW30 46-1AB14 <sup>1)</sup>	70 – 90	3RU11 46-4LB0		
45 80	80 – 100	3RV10 41-4MA10	DC	95	–	3RT10 46-1B..0		100	3RW30 46-1AB04 <sup>1)</sup>	80 – 100	3RU11 46-4MB0		

CLASS 10 0 6 1

CLASS 5...30\* 1 3 4

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

Coil Codes: AC : C2-24V 50/60 Hz, G2-110V 50/60 Hz, L2-230V 50/60 Hz, V0-400V 50/60 Hz  
DC : B4-24VDC, F4-110VDC, M4-220VDC



# S6, S10, S12 selection and ordering data



S6	Contactors		Coil operating mechanism		Overload relays <sup>1)</sup>			Soft starters		
3-phase motor AC-3/415 V [kW] [A]	Contactor without coil operating mechanism	Auxiliary contacts	Electromagnetic coil operating mechanism	Order No.	Setting range [A]	Electronic Order No.	Version	Control supply voltage	Rated operating current I <sub>e</sub> [A]	Order No.
55 115	3RT10 54-6LA06	2NO + 2NC	Conventional	3RT19 55-5A.31	50 – 200	3RB2□5□□FW2	with straight-through transformer	230 V AC	134	3RW40 55-6BB44
75 150	3RT10 55-6LA06	2NO + 2NC	OR		50 – 200	3RB2□5□□FC2	with busbar connection	115 V AC	134	3RW40 55-6BB34
90 185	3RT10 56-6LA06	2NO + 2NC	for 24V DC PLC Output	3RT19 55-5N.31				230 V AC	162	3RW40 56-6BB44
								115 V AC	162	3RW40 56-6BB34

CLASS 10 0 6 1

CLASS 5...30\* 1 3 4

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



S10	Contactors		Coil operating mechanism		Overload relays <sup>1)</sup>			Soft starters		
3-phase motor AC-3/415 V [kW] [A]	Contactor without coil operating mechanism	Auxiliary contacts	Electromagnetic coil operating mechanism	Order No.	Setting range [A]	Electronic Order No.	Version	Control supply voltage	Rated operating current I <sub>e</sub> [A]	Order No.
110 225	3RT10 64-6LA06	2NO + 2NC	Conventional	3RT19 65-5A.31	55 – 250	3RB2□6□□GC2	with busbar connection	230 V AC	230	3RW40 73-6BB44
132 265	3RT10 65-6LA06	2NO + 2NC	OR		160 – 630	3RB2□6□□MC2	with busbar connection	115 V AC	230	3RW40 73-6BB34
160 300	3RT10 66-6LA06	2NO + 2NC	for 24V DC PLC Output	3RT19 65-5N.31				230 V AC	280	3RW40 74-6BB44
								115 V AC	280	3RW40 74-6BB34



S12	Contactors		Coil operating mechanism		Overload relays <sup>1)</sup>			Soft starters		
3-phase motor AC-3/415 V [kW] [A]	Contactor without coil operating mechanism	Auxiliary contacts	Electromagnetic coil operating mechanism	Order No.	Setting range [A]	Electronic Order No.	Version	Control supply voltage	Rated operating current I <sub>e</sub> [A]	Order No.
200 400	3RT10 75-6LA06	2NO + 2NC	Conventional	3RT19 75-5A.31	160 – 630	3RB2□6□□MC2	with busbar connection	230 V AC	356	3RW40 75-6BB44
250 500	3RT10 76-6LA06	2NO + 2NC	OR					115 V AC	356	3RW40 75-6BB34
			for 24V DC PLC Output	3RT19 75-5N.31				230 V AC	432	3RW40 76-6BB44
								115 V AC	432	3RW40 76-6BB34

CLASS 10 □ 0 □ 6 □ 1

CLASS 5...30\* □ 1 □ 3 □ 4

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

**Coil Codes:** For conventional : B-23...26V 40 to 60 Hz, F-110...127V 40 to 60 Hz, P-220...240V 40 to 60 Hz  
For 24V DC PLC output : B-21...27V 40 to 60 Hz, F-96...127V 40 to 60 Hz, P-200...277V 40 to 60 Hz

1) For thermal overload relay use 3UR6 range

SETRON 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 catalogue.

## Selection and ordering data

### Auxiliary Contactors - 3RH (S00)

Screw terminals				
Operational Current I <sub>e</sub> AC-15 / AC-14 at 230V	Contacts	Contacts	Type	Type
A	NO	NC		
Size S00				
10	4	–	3RH21 40-1A..0	3RH21 40-1B..0
	3	1	3RH21 31-1A..0	3RH21 31-1B..0
	2	2	3RH21 22-1A..0	3RH21 22-1B..0

\$@ Please enter coil codes from table below

#### \$ AC coil voltage

Code	B0	F0	P0
Coil voltage 50/60 Hz	24	110	230

#### @ DC Coil Voltage

Code	B4	F4	M4
Coil voltage	24	110	220

For ordering 3RH (S00) with spring type terminals please replace 8th digit from "1" to "2"

### Latched Contactor Relays - 3RH24

#### Screw terminals

Screw terminals				
Rated operational current I <sub>e</sub> AC-15/ AC-14 at 230V	Contacts	Contacts	AC Coil <sup>s</sup>	DC Coil <sup>®</sup>
A	NO	NC	Type	Type
10	4	–	3RH24 40-1A..0	3RH24 40-1B..0
	3	1	3RH24 31-1A..0	3RH24 31-1B..0
	2	2	3RH24 22-1A..0	3RH24 22-1B..0

\$@ Please enter coil codes from table below

#### \$ AC coil voltage

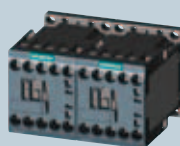
Code	B0	F0	P0
Coil voltage 50/60 Hz	24	110	230

#### @ DC Coil Voltage

Code	B4	F4	M4
Coil voltage	24	110	220

For Latched Power Contactors refer 3RT accessory "Mechanical Latching Blocks"

Spring type terminals are not available for latched contactor relays



### Low power consumption coil contactors

#### Auxiliary Contactor - 3RH21 Coupling Relays

Rated control supply voltage U<sub>s</sub> = 24 V DC, Coil operating range 0.7 to 1.25xU<sub>s</sub>

Power Consumption of the coils 2.8W at 24V DC (No auxiliary contacts can be mounted)



Screw terminals				
Surge Suppressors	Rated operational current I <sub>e</sub> AC-15/AC-14 at 230 V	Auxiliary contacts		Type
A		NO	NC	
Size S00				
Built in suppressor Diode	10	4	–	3RH21 40-1KB40
		3	1	3RH21 31-1KB40
		2	2	3RH21 22-1KB40
		4	–	3RH21 40-1JB40
		3	1	3RH21 31-1JB40
		2	2	3RH21 22-1JB40

#### Power Contactors - 3RT20 coupling relays (interface), for switching motors, 3Pole 3.... 15kW

Rated control supply voltage U<sub>s</sub> = 24 V DC, Coil operating range 0.7 to 1.25xU<sub>s</sub>

Power Consumption of the coils 2.8W at 24V DC (No auxiliary contacts can be mounted)



Screw terminals					
Surge Supressors	AC-2 & AC-3 Operational Current Ie upto 415V A	Rating of induction motor at 50 Hz and 415V	Auxillary contacts		Type
			NO	NC	
Size S00					
Bulit in supressor Diode	7	3	1	–	3RT20 15-1KB41
			–	1	3RT20 15-1KB42
	9	4	1	–	3RT20 16-1KB41
			–	1	3RT20 16-1KB42
	12	5.5	1	–	3RT20 17-1KB41
			–	1	3RT20 17-1KB42
Bulit in Diode	7	3	1	–	3RT20 15-1JB41
			–	1	3RT20 15-1JB42
	9	4	1	–	3RT20 16-1JB41
			–	1	3RT20 16-1JB42
	12	5.5	1	–	3RT20 17-1JB41
			–	1	3RT20 17-1JB42

Rated control supply voltage U<sub>s</sub> = 24 V DC, Coil operating range 0.7 to 1.25xU<sub>s</sub>

Power Consumption of the coils 4.5W at 24V DC (no auxiliary contacts can be mounted)



Screw terminals					
Size S00					
Varistor integrated	12	5.5	1	1	3RT20 24-1KB40
	17	7.5	1	1	3RT20 25-1KB40
	25	11	1	1	3RT20 26-1KB40
	32	15	1	1	3RT20 27-1KB40

For ordering low power consumption coil contactors with spring type terminals please replace 8th digit from "1" to "2"

## Selection and ordering data

### AC1 duty contactor - 3RT14

Size	AC-1 Operational current I <sub>e</sub> upto 690V	Electromagnetic coil operating mechanism	Type#
A			
S3	140	AC DC	3RT14 46-1A..0 3RT14 46-1B..0
S6	275	AC/DC	3RT14 56-6A.36
S10	400	AC/DC	3RT14 66-6A.36
S12	690	AC/DC	3RT14 76-6A.36

# — Coil codes

For S3 — To be substituted for 10th and 11th position

AC : C2 - 24V 50/60Hz, G2 - 110V 50/60Hz, L2 - 230V 50/60Hz, V0 - 400V 50Hz

DC : B4 - 24V, F4 - 110V, M4 - 220V

For S6 to S12 — To be substituted for 10th position

AC(40-60Hz) / DC : B — 23—26V, F — 110—127V, P — 220—240V



### 4 Pole Power Contactors - 3RT23

Screw terminals			
Size	AC-1 operational current I <sub>e</sub> upto 415V @ 40 Deg	AC Coil <sup>§</sup> Type	DC Coil <sup>®</sup> Type
A			
S00	18	3RT23 16-1A..0	3RT23 16-1B..0
	22	3RT23 17-1A..0	3RT23 17-1B..0
S0 <sup>1)</sup>	35	3RT23 25-1A..0	3RT23 25-1B..0
	40	3RT23 26-1A..0	3RT23 26-1B..0
	50	3RT23 27-1A..0	3RT23 27-1B..0
S2	60	3RT13 36-1A..0	3RT13 36-1B..0
S3	110	3RT13 44-1A..0	3RT13 44-1B..0
S3	140	3RT13 46-1A..0	3RT13 46-1B..0

\$@ Please enter coil codes from below

AC: B0 - 24V 50/60Hz, F0 - 110V 50/60Hz, P0 - 230V 50/60Hz, V0 - 400V 50Hz

DC: B4 - 24V, F4 - 110V, M4 - 220V



### 2NO+2NC Power Contactors - 3RT25

#### Screw terminals

Screw terminals			
Size	AC-1 operational current I <sub>e</sub> upto 415V @ 40 Deg	AC Coil <sup>§</sup> Type	DC Coil <sup>®</sup> Type
A			
S00	18	3RT25 16-1A..0	3RT25 16-1B..0
	22	3RT25 17-1A..0	3RT25 17-1B..0
S0 <sup>1)</sup>	40	3RT25 26-1A..0	3RT25 26-1B..0
S2	55	3RT15 35-1A..0	3RT15 35-1B..0

\$@ Please enter coil codes from below

AC: B0 - 24V 50/60Hz, F0 - 110V 50/60Hz, P0 - 230V 50/60Hz, V0 - 400V 50Hz

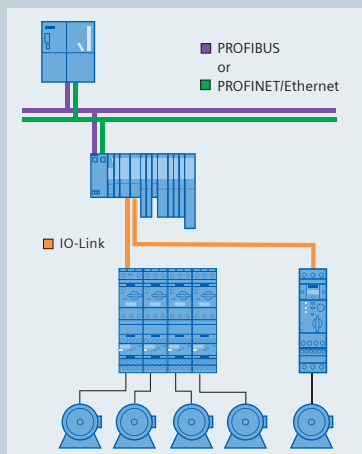
DC: B4 - 24V, F4 - 110V, M4 - 220V



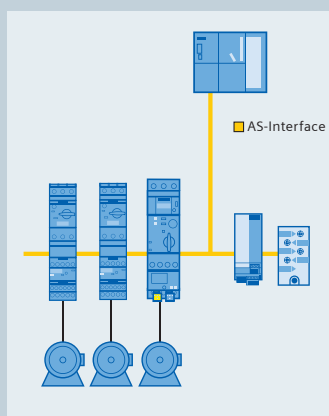
# Communications – general information and contactors

Interfacing load feeders to the control system requires function modules for IO-Link or AS-i which are mounted on contactors (24 V DC) with a communication interface. Depending on the version, they communicate with an IO-Link interface group or any AS-i Master.

## Typical layout in the environment of IO-Link

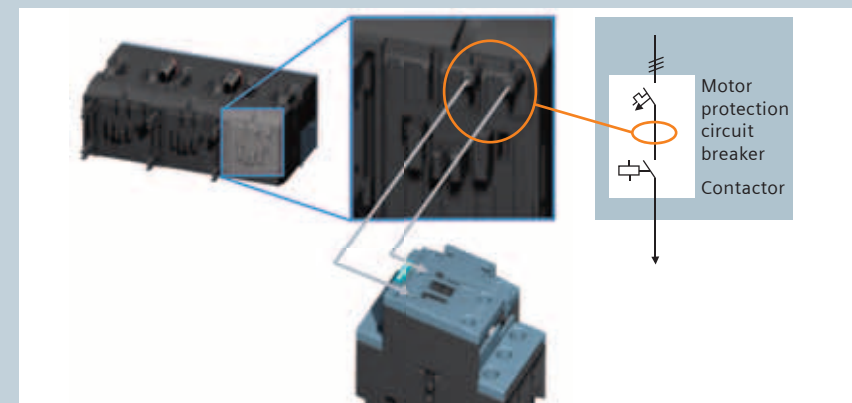


## Typical layout in the environment of AS-Interface



IO-Link	
Version	Order no.
ET 200S electronic module, 4SI IO-Link (with 4 ports for 4 load feeders each)	6ES7 138-4GA50-0AB0
or	
ET 200S electronic module, 4SI SIRIUS (with 4 ports for 4 load feeders each)	3RK1005-0LB00-0AA0
ET 200S terminal module (15 mm wide)	
– With screw terminal	TM-E15S26-A1 6ES7
– With spring-loaded terminal	TM-E15C26-A1 6ES7
– With Fast Connect	TM-E15N26-A1 6ES7

AS-Interface	
Version	Order no.
CP 343-2P communication processor for interfacing SIMATIC S7-300 to AS-Interface (AS-i Spec.3.0) for max. 62 load feeders	6GK7343-2AH11-0XA0
Front connector, 20-pin with screw contacts	6ES7392-1AJ00-0AA0
Front connector, 20-pin with spring-loaded contacts	6ES7392-1BJ00-0AA0
DP/AS-i LINK Advanced, gateway between PROFIBUS DP and AS-Interface	
– Single master for max. 62 load feeders	6GK1415-2BA10
– Double master for max. 124 load feeders	6GK1415-2BA20
IE/AS-i LINK PN IO, gateway between PROFINET and AS-Interface	
Single master for max. 62 load feeders	6GK1411-2AB10
Double master for max. 124 load feeders	6GK1411-2AB20
AS-Interface power supply unit IP20	
– 120/230 V AC 3A	3RX9501-0BA00
– 24 V DC 3A	3RX9501-1BA00
– 120/230 V AC 5A	3RX9502-0BA00
– 120/230 V AC 8A	3RX9503-0BA00



Mounting principle of function modules on contactors



## Three-phase motor 415 V/AC-3

[kW] [A]

3 7

4 9

5.5 12

7.5 16

5.5 12

7.5 16

11 25

15 32

18.5 38

## S00 contactor with communication interface

Auxiliary contacts Control supply voltage Order no.

DC 24 V

1NC 3RT2015-□BB42-0CC0

1NO 3RT2015-□BB41-0CC0

1NC 3RT2016-□BB42-0CC0

1NO 3RT2016-□BB41-0CC0

1NC 3RT2017-□BB42-0CC0

1NO 3RT2017-□BB41-0CC0

1NC 3RT2018-□BB42-0CC0

1NO 3RT2018-□BB41-0CC0

## S0 contactor with communication interface

1NO+1NC 3RT2024-□BB40-0CC0

1NO+1NC 3RT2025-□BB40-0CC0

1NO+1NC 3RT2026-□BB40-0CC0


1NO+1NC 3RT2027-□BB40-0CC0



1NO+1NC 3RT2028-□BB40-0CC0



Screw connection: 1  
Spring-loaded connection: 2

# Function modules for mounting on 3RT2 contactors and for interfacing the control system

Parallel wiring									
	Direct-on-line start		Reversing start		Star-delta start				
	Order no.		Order no.		Order no.				
	ON delay		3RA2811-1CW10	Wiring kit for contactors	S00	3RA2913-2AA 1	Function module 4)	3RA2816-0EW20	
	OFF delay (with auxiliary voltage)		3RA2812-1DW10	Wiring kit for contactors with screw connection	S0	3RA2923-2AA 1	Wiring kit for contactors 1)	S00	3RA2913-2BB 1
					Wiring kit for contactors 1)		S0	3RA2923-2BB 1	
IO-Link									
	Direct-on-line start 1) 2)		Reversing start 1) 2) 3)		Star-delta start 1) 2) 4)				
	Order no.		Order no.		Order no.				
	Function module		3RA2711-1AA00	Function module	3RA2711-1BA00	Function module	3RA2711-1CA00	Wiring kit for contactors	S00
				Wiring kit for contactors	S00	3RA2913-2AA 1	Wiring kit for contactors	S00	3RA2913-2BB 1
			Wiring kit for contactors	S0	3RA2923-2AA 1	Wiring kit for contactors	S0	3RA2923-2BB 1	
AS-Interface									
	Direct-on-line start 1) 2)		Reversing start 1) 2) 3)		Star-delta start 1) 2) 4)				
	Order no.		Order no.		Order no.				
	Function module		3RA2712-1AA00	Function module	3RA2712-1BA00	Function module	3RA2712-1CA00	Wiring kit for contactors	S00
				Wiring kit for contactors	S00	3RA2913-2AA 1	Wiring kit for contactors	S00	3RA2913-2BB 1
			Wiring kit for contactors	S0	3RA2923-2AA 1	Wiring kit for contactors	S0	3RA2923-2BB 1	
Spring-loaded connection: 									
Spring-loaded connection: 									
Spring-loaded connection: 									

Spring-loaded connection: 

Spring-loaded connection:  

Spring-loaded connection:  

The above shown contactor assemblies can be combined with motor protection circuit breaker, overload and current monitoring relay

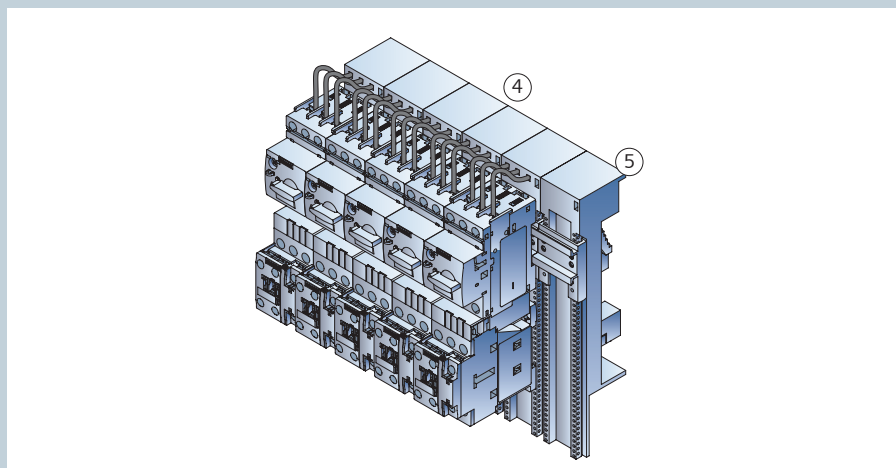
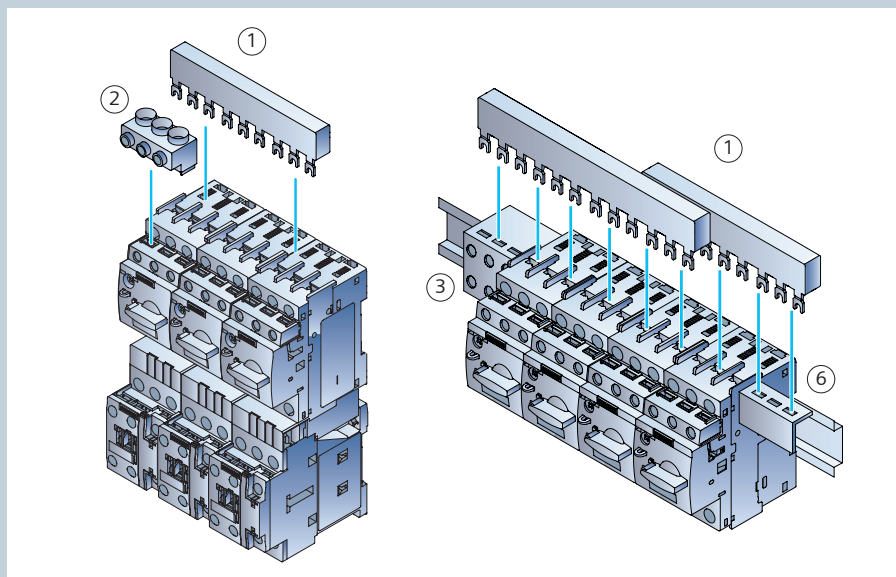
<sup>1)</sup> The wiring modules for control circuit are not required when using function modules with communications interface

<sup>2)</sup> The contactor upon which the basic module is fitted must be selected as a communication contactor

<sup>3)</sup> Consisting of 1 basic module and 1 interface module

<sup>4)</sup> Consisting of 1 basic module and 2 interface modules

## 3-phase comb busbars / 8US busbar adapters for supply

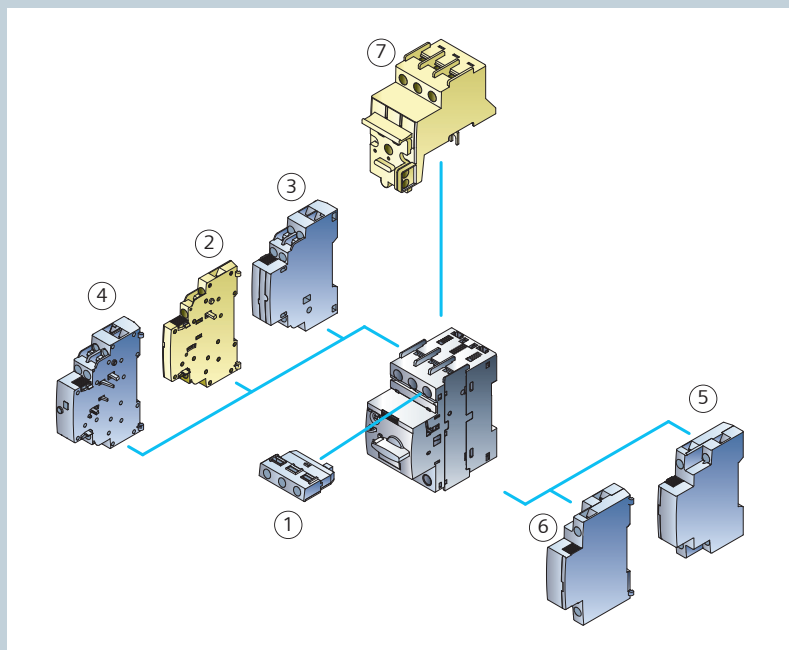


Type	Size	Order no.		
① 3-phase comb busbars				
For supplying several 3RV2 Motor protection circuit breaker (screw-connected) mounted side by side on DIN rails, safe to touch		Modular spacing 45 mm	Modular spacing 55 mm	Modular spacing 63 mm
For 2 motor protection circuit breakers	S00, S0	3RV1915-1AB	3RV1915-2AB	3RV1915-3AB
For 3 motor protection circuit breakers	S00, S0	3RV1915-1BB	3RV1915-2BB	–
For 4 motor protection circuit breakers	S00, S0	3RV1915-1CB	3RV1915-2CB	3RV1915-3CB
For 5 motor protection circuit breakers	S00, S0	3RV1915-1DB	3RV1915-2DB	–
3-phase supply terminals				
② Connection from the top	S00, S0	3RV2925-5AB		
③ Connection from the bottom	S00, S0	3RV2915-5B		
Accessories				
⑥ Cover caps for connecting lugs	S00, S0	3RV1915-6AB		
Touch protection for unassigned slots				

Type	Size	Version (Length)	Order no.
<b>4 Busbar adapter for 60 mm system</b>			
For load feeders	S00	200 mm	8US1251-5DS10
Rated current 16 A for screw connection			
For load feeders	S0	260 mm	8US1251-5NT10
Rated current 32 A for screw connection			
For load feeders	S00, S0	260 mm	8US1251-5DT11
Rated current 16 A for spring-loaded connection			
For load feeders	S0	260 mm	8US1251-5NT11
Rated current 32 A for spring-loaded connection			
<b>5 Accessories</b>			
<b>Support</b>			
for side mounting on busbar adapter, 45 mm wide		200 mm	8US1250-5AS10
<b>Support</b>			
for side mounting on busbar adapter, 45 mm wide		260 mm	8US1250- 5AT10
<b>Side module</b>			
to widen the busbar adapter, 9 mm wide		200 mm	8US1998-2BJ10
<b>Spacer</b>			
Fixes the load feeder on the adapter			8US1998-1BA10
<b>Vibration/shock kit</b>			
To compensate strain from higher vibration and shock			8US1998-1CA10



# Accessories for 3RV2 Motor protection circuit breaker (S00, S0)

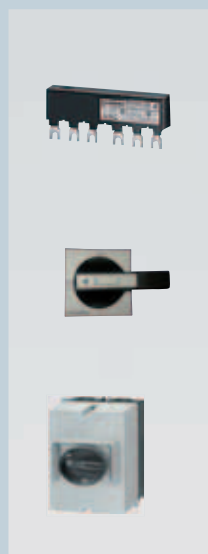


Type	Version	Order no. Screw connection	Order no. Spring-loaded connection
<b>Accessories for 3RV2 motor protection circuit breaker, size S00, S0</b>			
<b>Auxiliary and signaling contacts</b>			
① Front-mounted auxiliary block	1CO	3RV2901-1D	–
	1NO + 1NC	3RV2901-1E	3RV2901-2E
	2NO	3RV2901-1F	3RV2901-2F
② Auxiliary switch suited for electronic components	1CO	3RV2901-1G	–
	1NO + 1NC	3RV2901-1A	3RV2901-2A
	2NO	3RV2901-1B	3RV2901-2B
③ Side-mounted auxiliary block with 2 contacts	2NC	3RV2901-1C	3RV2901-2C
	2NO + 2NC	3RV2901-1J	–
④ Side-mounted auxiliary block with 4 contacts		3RV2921-1M	3RV2921-2M
<b>Auxiliary release</b>			
⑤ Shunt trip <sup>1)</sup>	AC/DC 20 – 70 V	3RV2902-1DB0	3RV2902-2DB0
	AC 210 – 240 V	3RV2902-1DP0	3RV2902-2DP0
⑥ Undervoltage release <sup>1)</sup>	AC 230 V	3RV2902-1AP0	3RV2902-2AP0
	AC 400 V	3RV2902-1AV0	3RV2902-2AV0
	Undervoltage release with leading auxiliary contacts		
	AC 230 V	3RV2922-1CP0	3RV2922-2CP0
	AC 400 V	3RV2922-1CV0	3RV2922-2CV0
	AC 415 V	3RV2922-1CV1	3RV2922-2CV1
<b>Isolator module and terminal blocks</b>			
⑦ Isolator module		3RV2928-1A	–

Type	Version <sup>2)</sup>	Order no.
<b>Insulated 3-phase busbar systems</b>		
<b>3-phase busbars, modular spacing 45 mm</b>		
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
<b>Door coupling rotary operating mechanism</b>		
Door coupling rotary operating mechanism (black) with extension shaft	300 mm	3RV1926-1B
Front drive		8UC62
<b>Molded-plastic housing</b>		
For motor protection circuit breaker (+ Side-mounted auxiliary block)	54 mm	3RV1923-1CA00
For motor protection circuit breaker (+ Side-mounted auxiliary block + auxiliary release)	72 mm	3RV1923-1DA00
<b>Molded-plastic housing with EMERGENCY STOP door coupling rotary operating mechanism</b>		
For motor protection circuit breaker (+ Side-mounted auxiliary block)	54 mm	3RV1923-1FA00
For motor protection circuit breaker (+ Side-mounted auxiliary block + auxiliary release)	72 mm	3RV1923-1GA00

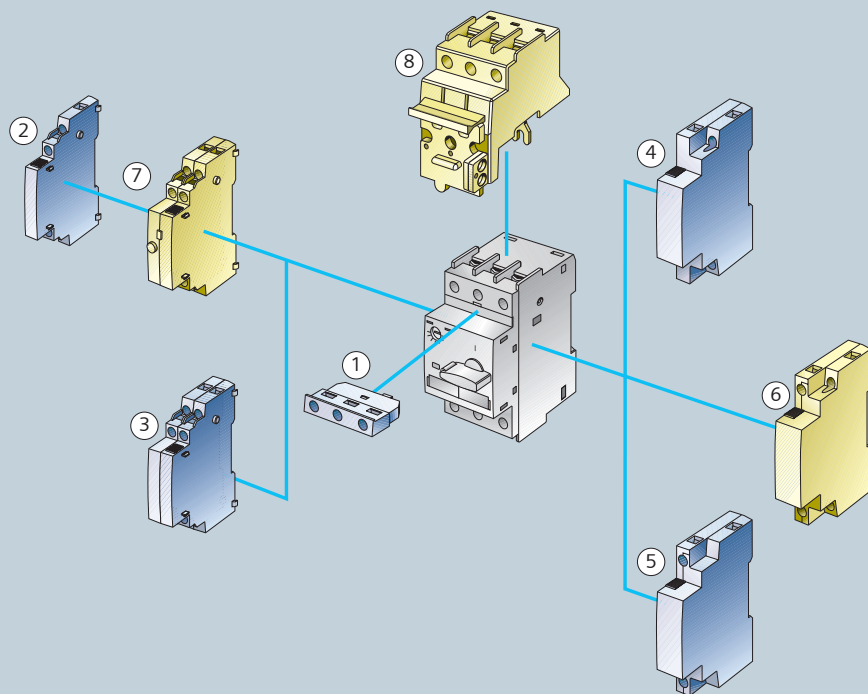
<sup>1)</sup> More versions on request

<sup>2)</sup> Only available as screw-connected versions




# Accessories for 3RV1 Motor protection circuit breaker size (S2, S3)

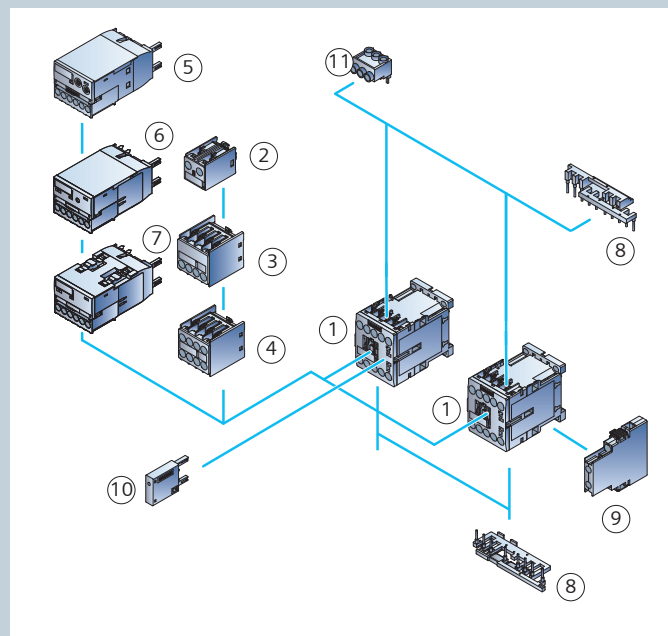
## Circuit breakers



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

Version	For Size	Order No.
<b>Insulated 3-phase busbar systems</b>		
 <b>3-phase busbars, modular spacing 55 mm</b> for 2 switches for 3 switches for 4 switches	S2	3RV19 35-1A 3RV19 35-1B 3RV19 35-1C
	S2	3RV19 35-5A
<b>Door-coupling rotary operating mechanisms</b>		
<b>Black</b>	Extension shaft 130 mm	S2 3RV19 36-1B
	Extension shaft 330 mm with support bracket	S3 3RV19 46-1B

## Accessories for 3RT201 contactors (S00)

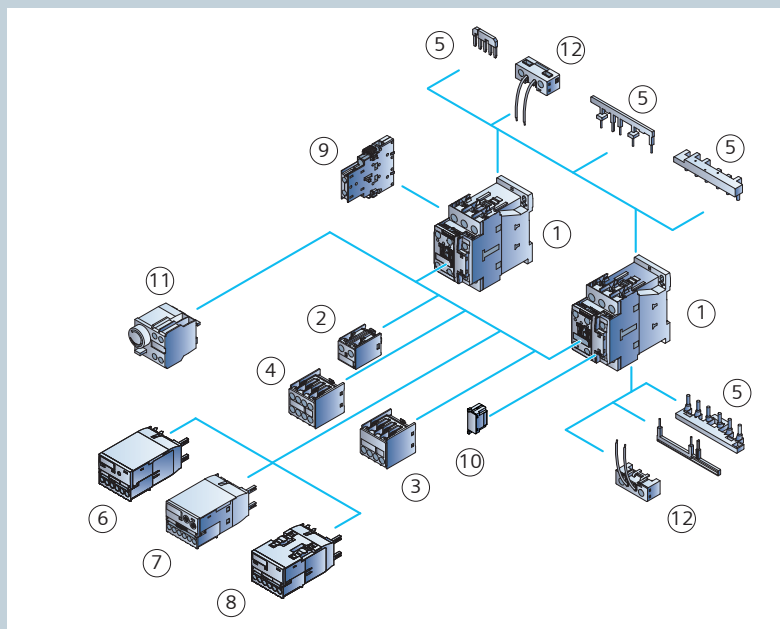


Front mounting auxiliary contacts for	Version	Order no. Screw connection	Order no. Spring-loaded connection
① 3RT2 contactors			
② 1-pole auxiliary contact block, cable entry from the top	1NO	3RH2911-1AA10	–
	1NC	3RH2911-1AA01	–
2-pole auxiliary contact block, cable entry from the top	1NO + 1NC	3RH2911-1LA11	–
	2NO	3RH2911-1LA20	–
③ 2-pole auxiliary contact block, cable entry from the bottom	1NO + 1NC	3RH2911-1MA11	–
	2NO	3RH2911-1MA20	–
④ 4-pole auxiliary contact blocks <sup>1)</sup> ,	2NC	3RH2911-1HA02	3RH2911-2HA02
	2NO + 2NC	3RH2911-1HA22	3RH2911-2HA22
*Auxiliary contact blocks suitable for electronic components (2-pole)	1NO + 1NC	3RH2911-1NF11	3RH2911-2NF11
	2NO	3RH2911-1NF20	3RH2911-2NF20
	2NC	3RH2911-1NF02	3RH2911-2NF02
⑤ ⑥ see page 25 (Function modules for mounting on contactors and for interfacing the control system)			
⑦ ⑧			
⑨ Auxiliary contact blocks for side mounting	2NO	3RH2911-1DA20	3RH2911-2DA20
	1NO + 1NC	3RH2911-1DA11	3RH2911-2DA11
	2NC	3RH2911-1DA02	3RH2911-2DA02
Auxiliary contact block suited for electronic components for side mounting (on the right)	1NO + 1NC	–	3RH2911-2DE11
⑩ Surge suppressor, e.g. varistor (AC 230 V) without LED	AC 127–240 V	3RT2916-1BD00	3RT2916-1BD00
with LED	AC 127–240 V	3RT2916-1JL00	3RT2916-1JL00
⑪ 3-phase supply terminal	Conductor cross section: 6 mm	3RA2913-3K	–

\* Gold plated for corrosive / dusty application

<sup>1)</sup> More auxiliary contact blocks on request

# Accessories for 3RT202 contactors (S0)



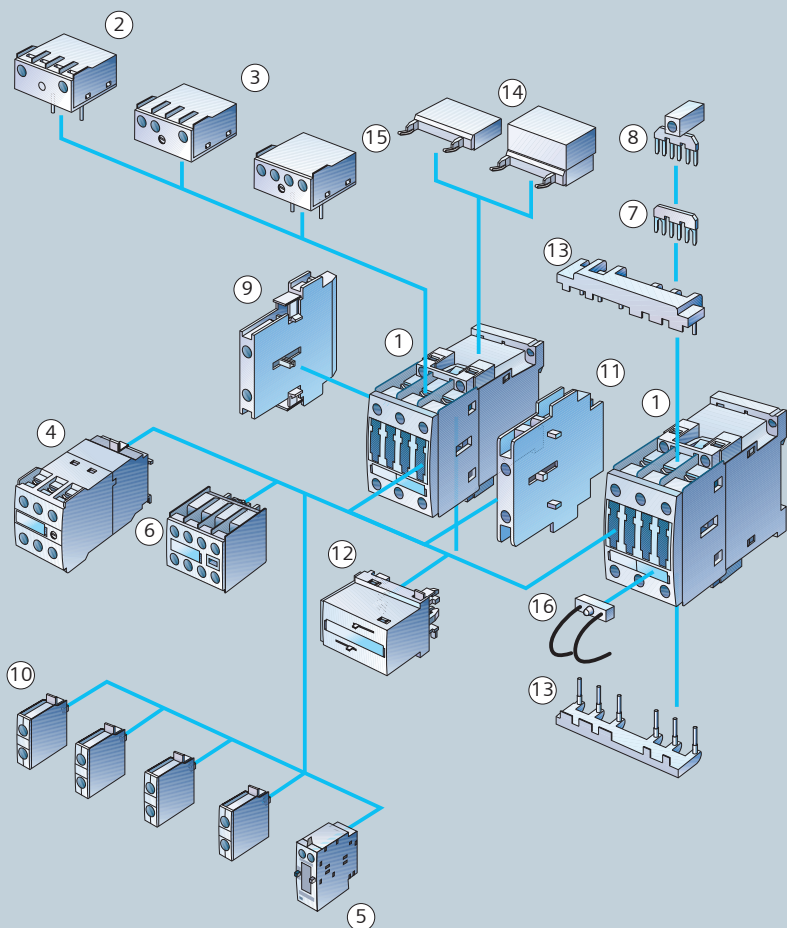
Front mounting auxiliary contacts for	Comment	Version	Order no. Screw connection	Order no. Spring-loaded connection
<b>3RT2 contactors</b>				
① 1-pole auxiliary contact block, cable entry from the top		1NO	3RH2911-1AA10	–
		1NC	3RH2911-1AA01	–
② 2-pole auxiliary contact block, cable entry from the top		1NO + 1NC	3RH2911-1LA11	–
		2NO	3RH2911-1LA20	–
③ 2-pole auxiliary contact block, cable entry from the bottom		1NO + 1NC	3RH2911-1MA11	–
		2NO	3RH2911-1MA20	–
④ 4-pole auxiliary contact blocks <sup>1)</sup> ,		2NC	3RH2911-1HA02	3RH2911-2HA02
		2NO + 2NC	3RH2911-1HA22	3RH2911-2HA22
*Auxiliary contact blocks suitable for electronic components (2-pole)		1NO + 1NC	3RH2911-1NF11	3RH2911-2NF11
		2NO	3RH2911-1NF20	3RH2911-2NF20
		2NC	3RH2911-1NF02	3RH2911-2NF02
⑤ ⑥ see page 25 (Function modules for mounting on contactors and for interfacing the control system)				
⑦ ⑧				

9	Auxiliary contact blocks for side mounting		2NO	3RH2911-1DA20	3RH2911-2DA20
			1NO + 1NC	3RH2911-1DA11	3RH2911-2DA11
			2NC	3RH2911-1DA02	3RH2911-2DA02
	Auxiliary contact block for side mounting (on the right), suitable for electronic components		1NO + 1NC	–	3RH2921-2DE11
10	Overvoltage limiter, e.g. varistor (AC 230 V)				
	without LED	AC 127–240 V		3RT2926-1BD00	3RT2926-1BD00
	with LED	AC 127–240 V		3RT2926-1JL00	3RT2926-1JL00
11	Pneumatic delay block	0.1 – 30 s	ON delay	3RT2926-2PA01	–
		1 – 60 s		3RT2926-2PA11	–
		0.1 – 30 s	OFF delay	3RT2926-2PR01	–
		1 – 60 s		3RT2926-2PR11	–
12	Coil terminal module				
	Connection from the top			3RT2926-4RA11	3RT2926-4RA12
	Connection from the bottom			3RT2926-4RB11	3RT2926-4RB12
	Diagonal connection			3RT2926-4RC11	3RT2926-4RC12

\* Gold plated for corrosive / dusty application

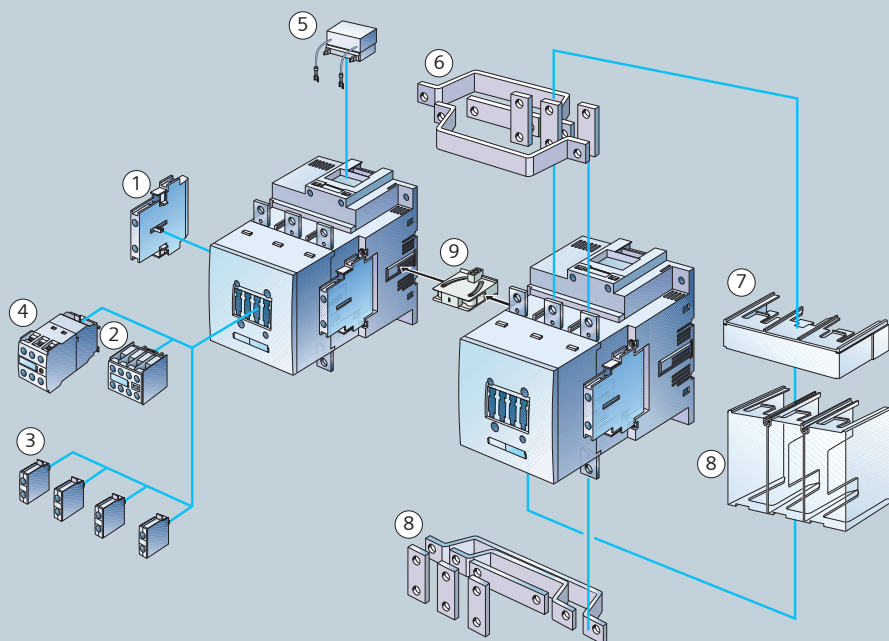
<sup>1)</sup> More auxiliary contact blocks on request

## Accessories for 3RT1 contactors (size S2, S3)



	Version	For Size	Order No.
① Contactor, size S2 (example) control supply voltage	7.5 kW/415 V 230 V, 50 Hz		3RT10 25-1AC00
For sizes S2 to S3:			
② Solid-state timer with semi conductor output (90...240V 50/60 Hz), ON delay	0.5 – 10 s		3RT19 26-2CH21
③ Solid-state timer with semi conductor output (90...240V 50/60 Hz), OFF delay	0.5 – 10 s		3RT19 26-2DH21
④ Solid-state timer ON delay (200...240V 50/60 Hz) OFF delay (200...240V 50/60 Hz)	0.5 – 10 s 0.5 – 10 s		3RT19 26-2ED21 3RT19 26-2FL21
⑤ Mechanical latching	24 AC/DC 110 AC/DC 230 AC/DC	S2 S2 S2	3RT19 26-3AB31 3RT19 26-3AF31 3RT19 26-3AP31
⑥ 4-pole auxiliary switch block (terminal designations acc. to DIN EN 50 012 or DIN EN 50 005)	2NO + 2NC		3RH19 21-1FA22
⑦ Link for paralleling (star jumper), 3-pole, without terminal	–	S2 S3	3RT19 36-4BA31 3RT19 46-4BA31
⑧ Link for paralleling, 3-pole, with terminal	–	S2 S3	3RT19 36-4BB31 3RT19 46-4BB31
⑨ 2-pole auxiliary switch block, can be laterally mounted (left or right)	1NO + 1NC	S2 – S12	3RH19 21-1EA11
⑩ 1-pole auxiliary switch block (up to 4 can be snapped on)	1NO 1NC	S2 – S12 S2 – S12	3RH19 21-1CA10 3RH19 21-1CA01
⑪ Mechanical interlock, can be laterally mounted	–	S2 – S3	3RA19 24-2B
⑫ Mechanical interlock, can be mounted at the front	–	S2 – S3	3RA19 24-1A
⑬ Wiring connectors at the top and bottom (reversing operation)	–	S2 S3	3RA19 33-2A 3RA19 43-2A
⑭ Surge suppressor (varistor, RC coupling, diode combination), can be mounted at the top or bottom	–	S2 – S3	3RT19 26-1BD00
⑮ Interface for mounting directly onto the contactor coil	–	S2 – S3	3RH19 24-1GP11
⑯ LED module to indicate contactor operation	–	S2 – S3	3RT19 26-1QT00

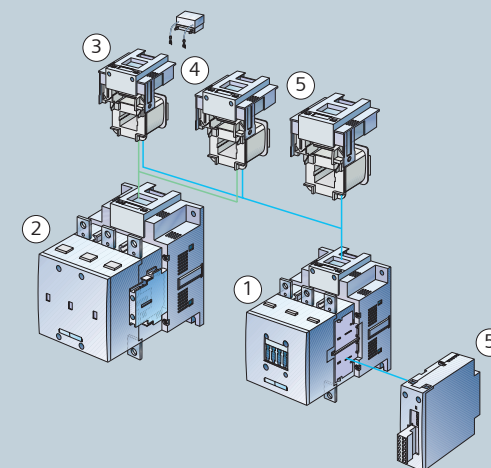
## Accessories for 3RT1 contactors (size S6, S10 and S12)



	Version	Order No.
① 2-pole auxiliary switch block, can be laterally mounted – 2nd block (left/right), DIN EN 50 005	1NO + 1NC 2NO	<b>3RH19 21-1KA11</b> <b>3RH19 21-1KA20</b>
② 4-pole auxiliary switch block, can be mounted at the front – with classification No. 5...8, DIN EN 50 012 – with classification No. 1...4, DIN EN 50 012	2NO + 2NC 2NO + 2NC	<b>3RH19 21-1FA22</b>
③ 1-pole auxiliary switch block, can be mounted at the front	1NO 1NC	<b>3RH19 21-1CA10</b> <b>3RH19 21-1CA01</b>
④ Auxiliary switch block, solid-state time-delay – ON delay, 200–240 V AC – OFF delay, 200–240 V AC	1NO + 1NC 0 ... 10 s 0.5 ... 10 s	<b>3RT19 26-2ED21</b> <b>3RT19 26-2FL21</b>

	Version	Order No.
⑤ RC element, 127 ... 240 V AC		<b>3RT19 56-1CD00</b>
⑥ Wiring connectors, top and bottom	for S6 for S10 for S12	<b>3RA19 53-2M</b> <b>3RA19 63-2A</b> <b>3RA19 73-2A</b>
⑦ Connection cover for box terminals	for S6 for S10/S12	<b>3RT19 56-4EA2</b> <b>3RT19 66-4EA2</b>
⑧ Terminal cover for cable lug and busbar connection	for S6 for S10/S12	<b>3RT19 56-4EA1</b> <b>3RT19 66-4EA1</b>
⑨ Mechanical interlock		<b>3RA19 54-2A</b>

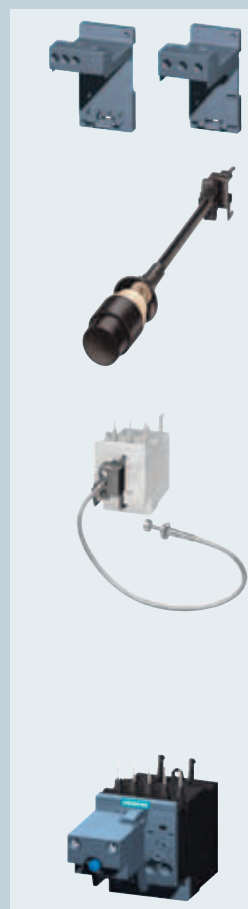
## Operating mechanism types



- 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-3/415 V	kW	Contactor without coil	Withdrawable coil for operating mechanism	
				conventional control supply voltage 220 ... 240 V AC/DC	electronic control supply voltage 200 ... 277 V AC/DC
			Order No.	Order No.	Order No.
S6	55		<b>3RT10 54-6LA06</b>	<b>3RT19 55-5AP31</b>	<b>3RT19 55-5NP31</b>
	75		<b>3RT10 55-6LA06</b>		
	90		<b>3RT10 56-6LA06</b>		
S10	110		<b>3RT10 64-6LA06</b>	<b>3RT19 65-5AP31</b>	<b>3RT19 65-5NP31</b>
	132		<b>3RT10 65-6LA06</b>		
	160		<b>3RT10 66-6LA06</b>		
S12	200		<b>3RT10 75-6LA06</b>	<b>3RT19 75-5AP31</b>	<b>3RT19 75-5NP31</b>
	250		<b>3RT10 76-6LA06</b>		

# Accessories for 3RU21 thermal overload relay, 3RB30/31 solid-state overload relay, 3RR21 analog current monitoring relay and 3RR22 digital current monitoring relay (S00, S0)









Version	For size	Order no.	Can be combined with the following overload and current monitoring relays			
			3RU2	3RB3	3RR21	3RR22
<b>Accessory for independent mounting</b>						
For mounting the overload relays separately	S00	3RU2916-3A101	●	●	●	●
For screw and snap-on mounting on TH 35 DIN rail	S0	3RU2926-3A101	●	●	●	●
<b>Mechanical RESET consisting of:</b>						
Reset slide, holder and funnel	S00, S0	3RU2900-1A	●			
Reset slide, holder and funnel	S00, S0	3RB3980-0A		●		
Push button with elongated stroke (12 mm), IP65, Ø 22 mm	S00, S0	3SB3000-0EA11	●	●		
Extension tappet to even out the spacing between a push button and the reset button of the relay	S00, S0	3SX1335	●	●		
<b>Cable release with holder for RESET for bores Ø 6.5 mm in the control panel</b>						
Length 400 mm	S00, S0	3RU2900-1B	●			
Length 400 mm	S00, S0	3RB3980-0B		●		
Length 600 mm	S00, S0	3RU2900-1C	●			
Length 600 mm	S00, S0	3RB3980-0C		●		
<b>Sealable cover for 3RB20/21, transparent</b>						
For covering the setting components	S00, S0	3RV2908-0P	●			
For covering the setting components	S00, S0	3RB3984-0		●		
For covering the setting components	S00, S0	3RR2940			●	●
<b>Modules for remote reset</b>						
AC/DC 24 ... 30 V	S00, S0	3RU1900-2AB71	●			
AC/DC 110 ... 127 V	S00, S0	3RU1900-2AF71	●			
AC/DC 220 ... 250 V	S00, S0	3RU1900-2AM71	●			

Spring-loaded connection:

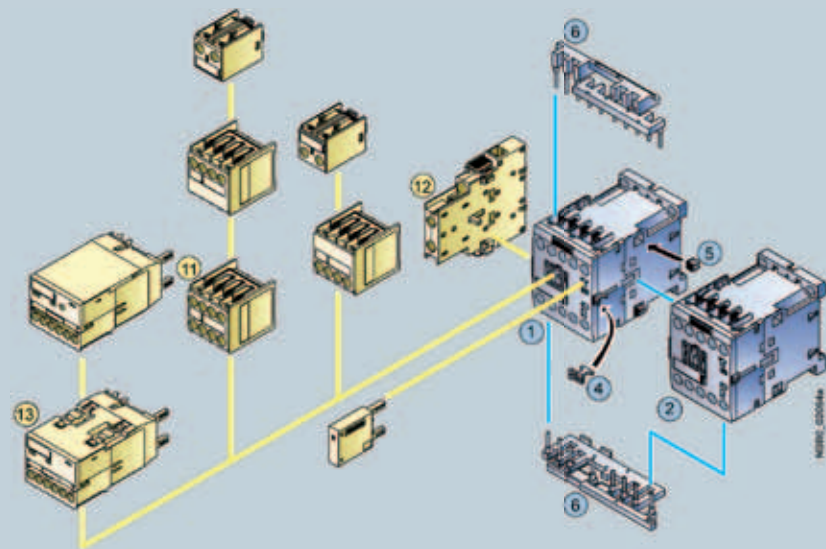


## Accessories for 3RU11 thermal overload relays and 3RB20/21 electronic overload relays

	Version	For Size	Order No.
	<b>Terminal support for stand-alone assembly for 3RU11</b> 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	S2 S3	<b>3RU19 36-3AA01</b> <b>3RU19 46-3AA01</b>
	<b>Mechanical RESET for 3RU11 and 3RB20/21</b> comprising:		
	① Resetting plunger, holder and former	S2 to S10/S12	<b>3RU19 00-1A</b>
	② Pushbutton with extended stroke (12 mm), IP65, Ø 22 mm	S2 to S10/S12	<b>3SB30 00-0EA11</b>
	Extension plunger for compensation of the distance between a pushbutton and the relay's release button	S2 to S10/S12	<b>3SX1335</b>
	<b>Cable release with holder for RESET 3RU11 and 3RB20/21</b> for holes 6.5 mm diameter in the panel; max. panel thickness, 8 mm	length 400 mm S2 to S10/S12 length 600 mm S2 to S10/S12	<b>3RU19 00-1B</b> <b>3RU19 00-1C</b>
	<b>Sealable cover, transparent for 3RB20/21</b> to cover the setting elements	S2 to S10/S12	<b>3RB29 84-0</b>

	Version	For Size	Order No.
	<b>Terminal covers for 3RU11 and 3RB20/21</b> Cover for cable lug and busbar connection	S3 S6 S10/S12	<b>3RT19 46-4EA1</b> <b>3RT19 56-4EA1</b> <b>3RT19 66-4EA1</b>
	Cover for box terminals	S2 S3 S6 S10/S12	<b>3RT19 36-4EA2</b> <b>3RT19 46-4EA2</b> <b>3RT19 56-4EA2</b> <b>3RT19 66-4EA2</b>
	Cover for the screw connection between the contactor and overload relay without box terminals (1x is required for each combination)	S6 S10/S12	<b>3RT19 56-4EA3</b> <b>3RT19 66-4EA3</b>
	<b>Box terminal block</b> for round and ribbon cables	to 70 mm <sup>2</sup> S6 to 120 mm <sup>2</sup> S6 to 240 mm <sup>2</sup> S10/S12	<b>3RT19 55-4G</b> <b>3RT19 56-4G</b> <b>3RT19 66-4G</b>

S00

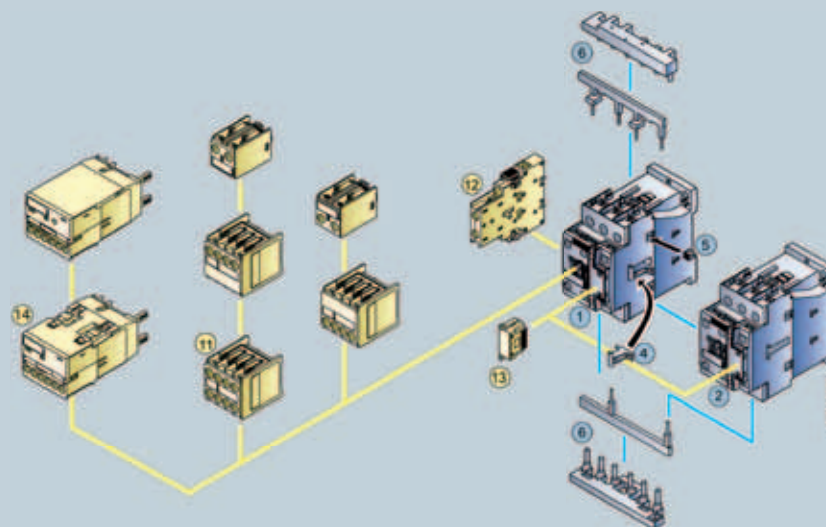


- ① ②
- ① ②
- ① ②
- ① ②
- ④ ⑤ ⑥

Type	Order No.	
① ② Contactors, 3 kW	3RT20 15	3RT20 15
① ② Contactors, 4 kW	3RT20 16	3RT20 16
① ② Contactors, 5.5 kW	3RT20 17	3RT20 17
① ② Contactors, 7.5 kW	3RT20 18	3RT20 18
④ ⑤ ⑥ Assembly kit comprising:	3RA29 13-2AA1	
④ Mechanical interlocks		
⑤ 2 connecting clips for 2 contactors		
⑥ Wiring modules on the top and bottom for connecting the main current paths, electrical interlock included), interruptible (NC contact interlock)		
⑪ Auxiliary switch block, front	3RH29 11-1. . . .	
⑫ Auxiliary switch block, lateral	3RH29 21-1DA. .	
⑬ Surge suppressor	3RT29 16-1. . . .	
⑬ Function module for connection to the control system	3RT27 1.-1BA00	

1) 3RT20 1. contactors with one NC contact in the basic unit are required for the electrical interlock.

S0



- ① ②
- ① ②
- ① ②
- ① ②
- ① ②
- ④ ⑤ ⑥

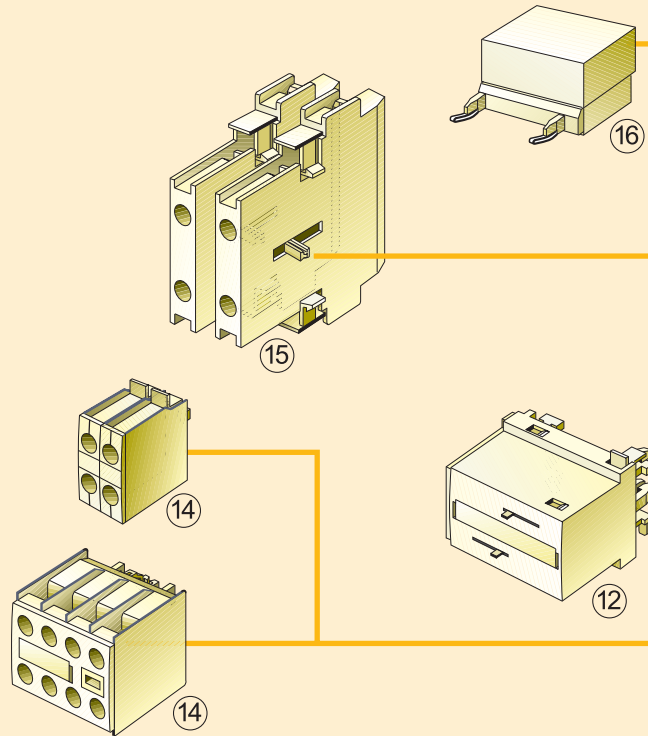
Type	Order No.	
① ② Contactors, 5 kW	3RT20 24	3RT20 24
① ② Contactors, 7.5 kW	3RT20 25	3RT20 25
① ② Contactors, 11 kW	3RT20 26	3RT20 26
① ② Contactors, 15 kW	3RT20 27	3RT20 27
① ② Contactors, 18.5 kW	3RT20 28	3RT20 28
④ ⑤ ⑥ Assembly kit comprising:	3RA29 23-2AA1	
④ Mechanical interlocks		
⑤ 2 connecting clips for 2 contactors		
⑥ Wiring modules on the top and bottom for connecting the main current paths, electrical interlock included), interruptible (NC contact interlock)		
⑪ Auxiliary switch block, front	3RH29 21-1. . . .	
⑫ Auxiliary switch block, lateral	3RH29 21-1DA. .	
⑬ Surge suppressor	3RT29 26-1. . . .	
⑭ Function module for connection to the control system	3RT27 1.-1BA00	

# 3RA13 Reversing Contactor Assemblies

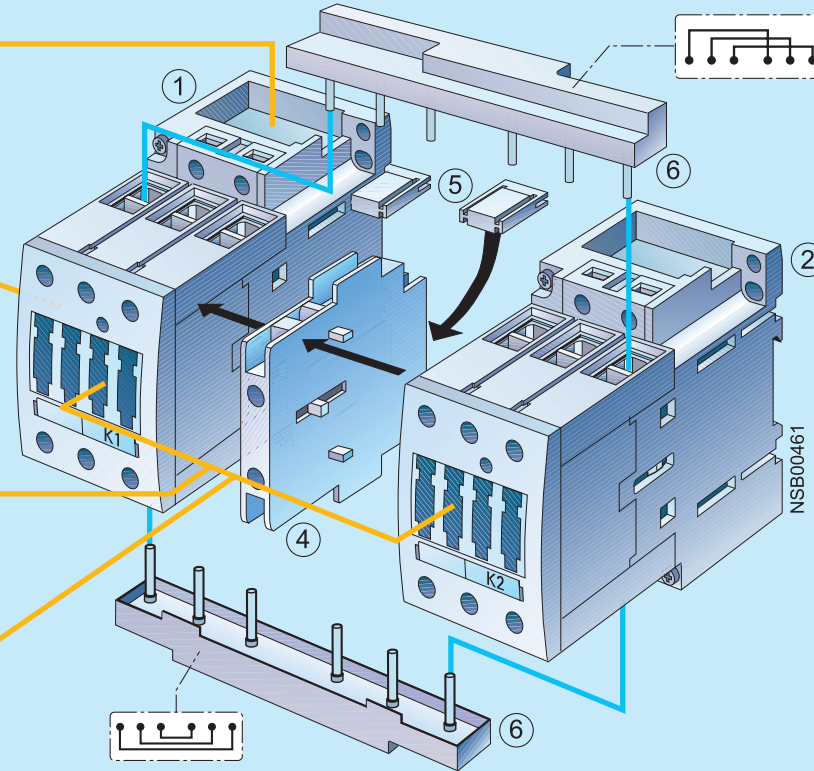
## 3RA13 complete units, 3 ... 45 kW

Fully wired and tested contactor assemblies · Size S2 · up to 22 kW

Mountable accessories (to be ordered separately):



The fully wired and tested contactor assembly includes the following components:



The connecting cables are not shown.

	Accessories	Order No.
12	Mechanical interlock, front	3RA19 24-1A
14	Auxiliary switch block, front	3RH19 21-1CA . .
15	Auxiliary switch block, lateral	3RH19 21-1EA . .
16	Surge suppressors	3RT19 26-1 . . . . 3RT19 36-1 . . . .

1 2  
1 2  
1 2  
4  
5 6

Individual parts	Order No.	
	K1	K2
1 2	3RT10 34	3RT10 34
1 2	3RT10 35	3RT10 35
1 2	3RT10 36	3RT10 36
4	3RA19 24-2B	
5 6	3RA19 33-2A	

The installation kit contains:

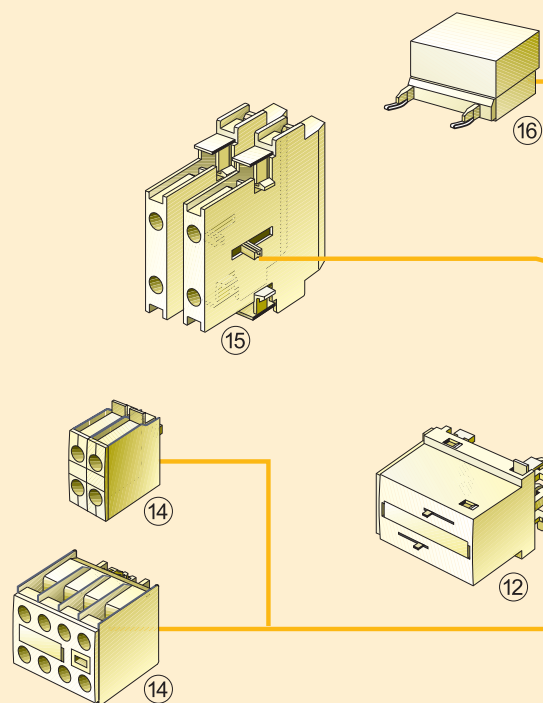
- 5 2 connecting clips for 2 contactors with a clearance of 10 mm
- 6 Wiring modules on the top and bottom for connecting the main current paths

## 3RA13 Reversing Contactor Assemblies

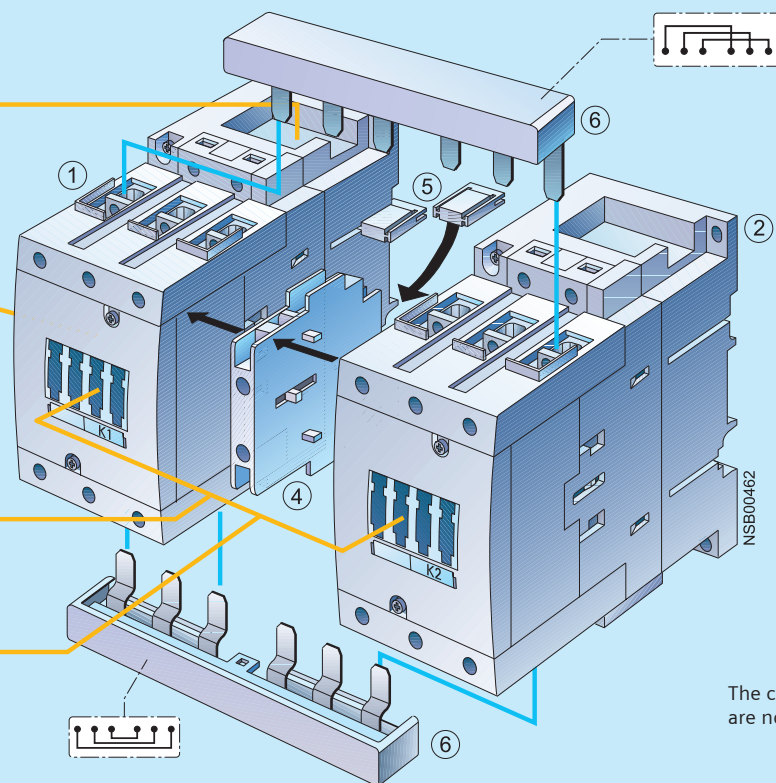
### 3RA13 complete units, 3 ... 45 kW

Fully wired and tested contactor assemblies · Size S3 · up to 45 kW

Mountable accessories (to be ordered separately):



The fully wired and tested contactor assembly includes the following components:



The connecting cables are not shown.

	Accessories	Order No.
12	Mechanical interlock, front	3RA19 24-1A
14	Auxiliary switch block, front	3RH19 21-1CA . .
15	Auxiliary switch block, lateral	3RH19 21-1EA . .
16	Surge suppressors	3RT19 26-1 . . . . 3RT19 36-1 . . . .

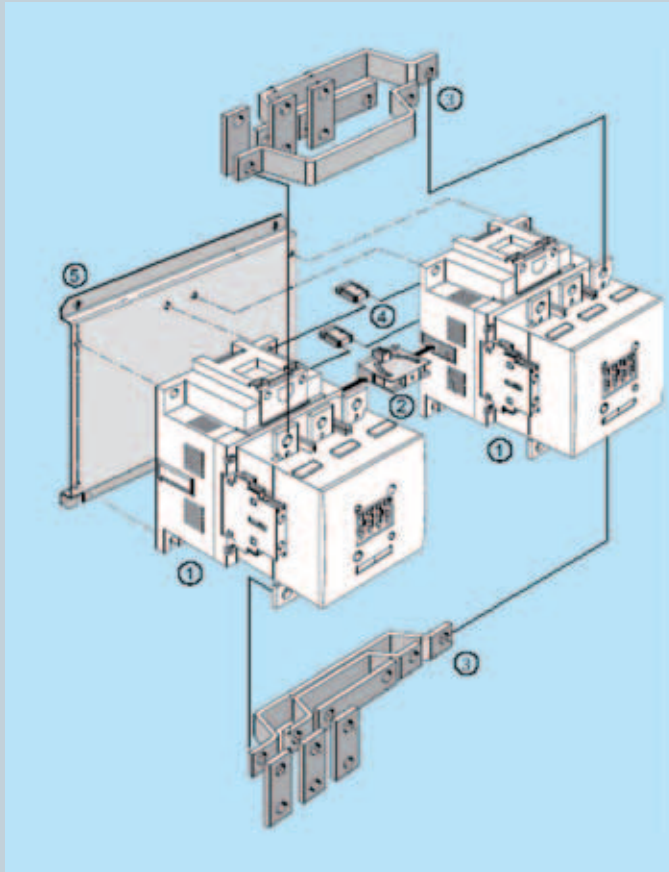
	Individual parts	Order No.	
		K1	K2
1 2	Contactors, 30 kW	3RT10 44	3RT10 44
1 2	Contactors, 37 kW	3RT10 45	3RT10 45
1 2	Contactors, 45 kW	3RT10 46	3RT10 46
4	Mechanical interlock, lateral	3RA19 24-2B	
5 6	Installation kit	3RA19 43-2A	

The installation kit contains:

- 5 2 connecting clips for 2 contactors with a clearance of 10 mm
- 6 Wiring modules on the top and bottom for connecting the main current paths

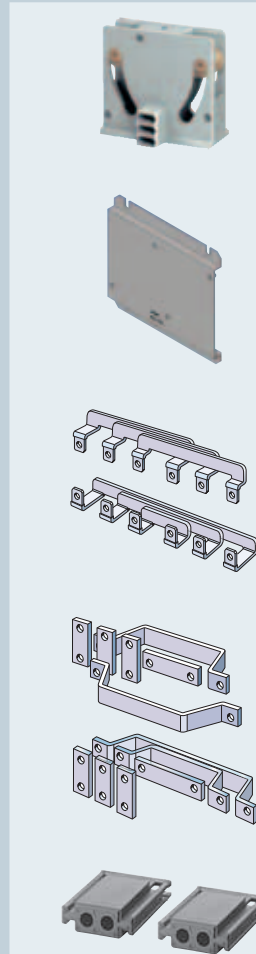
## Accessories for 3RT Contactors

### S6 - Mechanical Interlock & Installation kit for reversing contactors



#### Individual Components

- ① Size S6 Power Contactor
- ② Lateral mounted mechanical interlock
- ③ Wiring modules on the top & bottom
- ④ 2 Nos Connecting clips for two contactors
- ⑤ Base plate



#### Mech. Interlock - Size S6

	3-Pole
Lateral Mounting	A

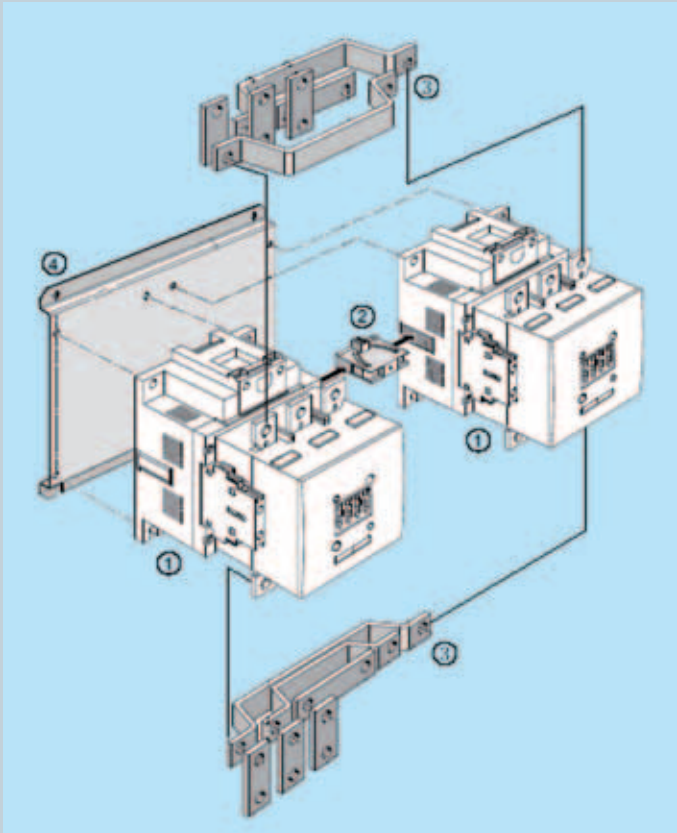
#### Installation Assembly for reversing cont. - Size S6

	3-Pole
Lateral Mounting (For contactor <u>with</u> box terminal)	A+B+C+E
Lateral Mounting (For contactor <u>without</u> box terminal)	A+B+D+E

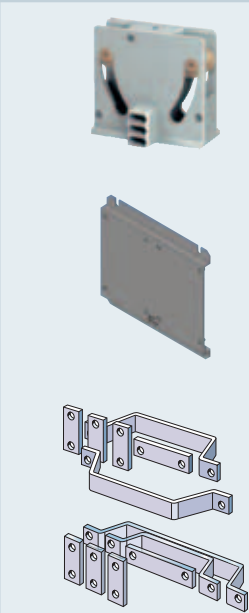
S.No.	For Contactor	Description	Type
A	3RT1. 5 3RT1. 6 3RT1. 7	Lateral Mounted Mechanical Interlock	■ 3RA19 54-2A
B	3RT10 5	Base Plate	3RA19 52-2A
C	3RT10 5	<u>Installation Kit</u> Each kit contains wiring modules on the top & bottom (For connection with box terminals)	3RA19 53-2A
D	3RT10 5	<u>Installation Kit</u> Each kit contains wiring modules on the top & bottom (For connection without box terminals)	3RA19 53-2M
E	3RT1. 3 3RT1. 4 3RT1. 5	Connecting Clips (for lateral mounted mechanical interlock) Each set consists of 2 Connecting clips	3RA19 32-2D



S10 - Mechanical Interlock & Installation kit for reversing contactors



Individual Components	
①	Size S10 Power Contactor
②	Lateral mounted mechanical interlock
③	Wiring modules on the top & bottom
④	Base plate



S.No.	For Contactor	Description	Type
A	3RT1. 5 3RT1. 6 3RT1. 7	Lateral Mounted Mechanical Interlock	■ 3RA19 54-2A
B	3RT1. 6	Base Plate	3RA19 62-2A
C	3RT1. 6	<u>Installation Kit</u> Each kit contains wiring modules on the top & bottom (For connection without box terminals)	3RA19 63-2A

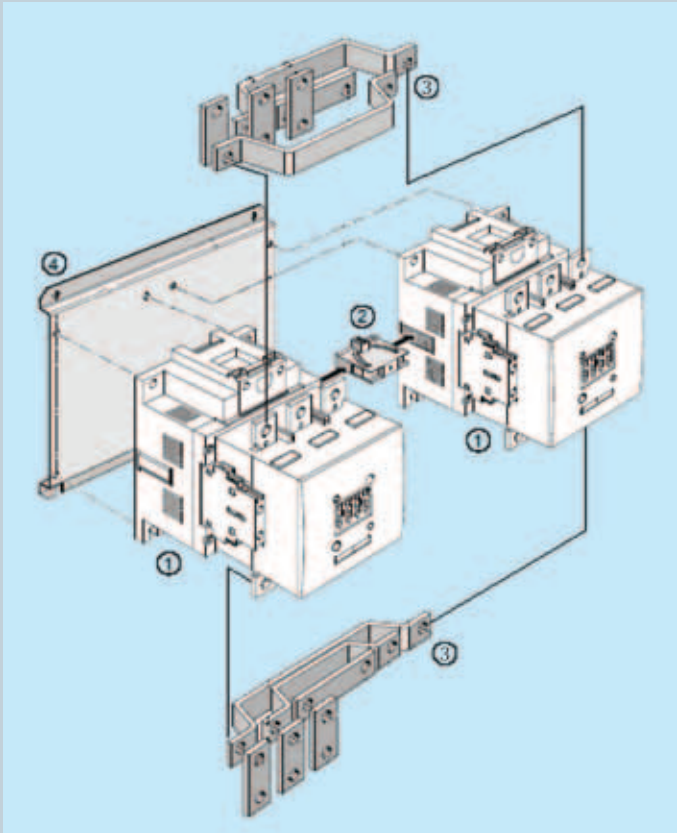
Mechanical Interlock - Size S10

	3-Pole
Lateral Mounting	A

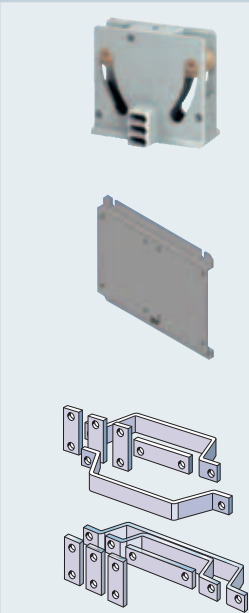
Installation Assembly for reversing cont. - Size S10

	3-Pole
Lateral Mounting (For contactor <u>with</u> box terminal)	A+B+C

S12 - Mechanical Interlock & Installation kit for reversing contactors



Individual Components	
①	Size S12 Power Contactor
②	Lateral mounted mechanical interlock
③	Wiring modules on the top & bottom
④	Base plate



S.No.	For Contactor	Description	Type
A	3RT1. 7	Lateral Mounted Mechanical Interlock	■ 3RA19 54-2A
B	3RT1. 7	Base Plate	3RA19 72-2A
C	3RT1. 7	<u>Installation Kit</u> Each kit contains wiring modules on the top & bottom (For connection without box terminals)	3RA19 73-2A

Mechanical Interlock - Size S12

	3-Pole
Lateral Mounting	A

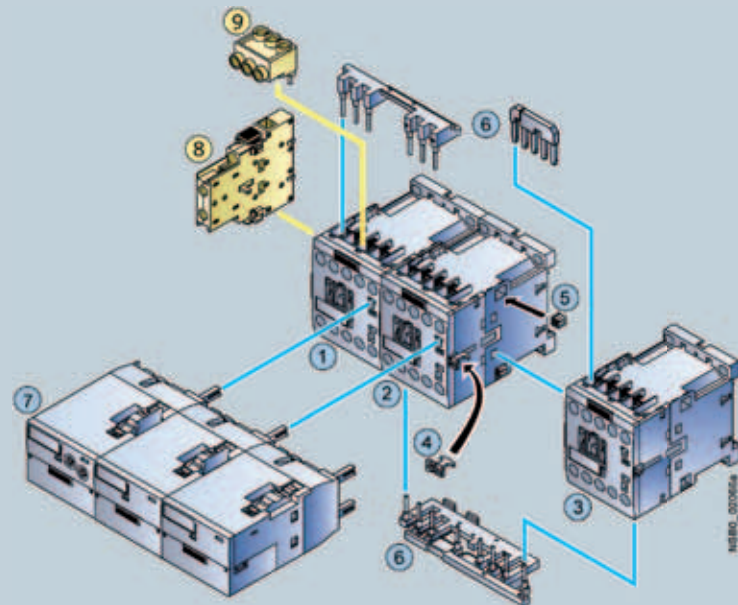
Installation Assembly for reversing cont. - Size S12

	3-Pole
Lateral Mounting (For contactor <u>with</u> box terminal)	A+B+C



## 3RA24 Contactor Assemblies for Wye-Delta Starting

### S00 - S00 - S00



① ② ③

① ② ③

① ② ③

④ ⑤ ⑥

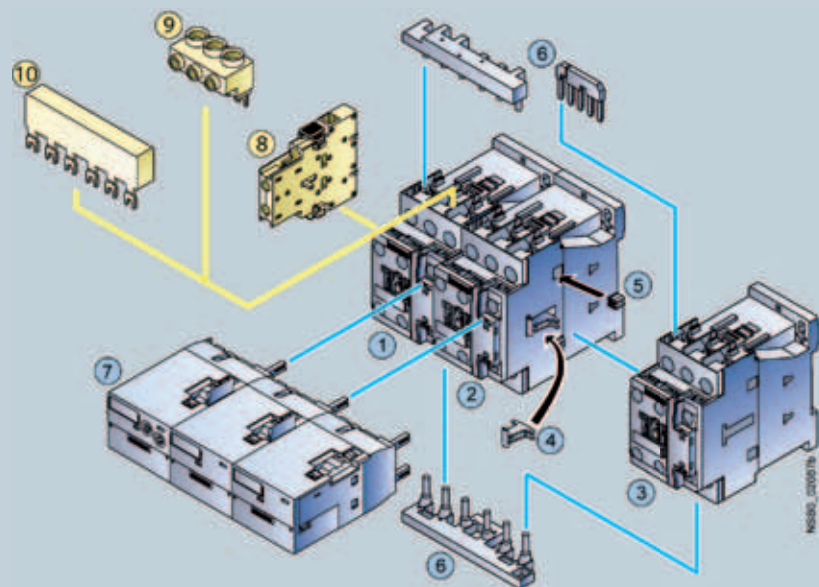
Type	Order No.		
① ② ③ Contactors, 5.5 kW	3RT20 15 <sup>1)</sup>	3RT20 15 <sup>2)</sup>	3RT20 15 <sup>2)</sup>
① ② ③ Contactors, 7.5 kW	3RT20 17 <sup>1)</sup>	3RT20 17 <sup>2)</sup>	3RT20 15 <sup>2)</sup>
① ② ③ Contactors, 11 kW	3RT20 18 <sup>1)</sup>	3RT20 18 <sup>2)</sup>	3RT20 16 <sup>2)</sup>
④ ⑤ ⑥ Assembly kit comprising:	3RA29 13-2BB1		
④ Mechanical interlock			
⑤ 4 connecting clips			
⑥ Wiring modules on the top and bottom for connecting the main current paths			
⑦ Function modules for wye-delta starting	3RA28 16-0EW20		
⑧ Auxiliary switch block, lateral	3RH29 21-1DA. .		
⑨ 3-phase feeder terminal <sup>3)</sup>	3RA29 13-3K		

1) Use version with 1 NO.

2) Use version with 1 NC.

3) It can be only be mounted with contactors with screw terminals.

### S0 - S0 - S0



① ② ③

① ② ③

① ② ③

④ ⑤ ⑥

Type	Order No.		
① ② ③ Contactors, 11 kW	3RT20 24 <sup>1)</sup>	3RT20 24 <sup>2)</sup>	3RT20 24 <sup>2)</sup>
① ② ③ Contactors, 15/18.5 kW	3RT20 26 <sup>1)</sup>	3RT20 26 <sup>2)</sup>	3RT20 24 <sup>2)</sup>
① ② ③ Contactors, 22 kW	3RT20 27 <sup>1)</sup>	3RT20 27 <sup>2)</sup>	3RT20 26 <sup>2)</sup>
④ ⑤ ⑥ Assembly kit comprising:	3RA29 23-2BB1		
④ Mechanical interlock			
⑤ 4 connecting clips			
⑥ Wiring modules on the top and bottom for connecting the main current paths			
⑦ Function modules for wye-delta starting	3RA28 16-0EW20		
⑧ Auxiliary switch block, lateral	3RH29 21-1DA. .		
⑨ 3-phase feeder terminal <sup>3)</sup>	3RV29 25-5AB		
⑩ Three-phase busbar <sup>1)</sup>	3RV19 15-1AB		

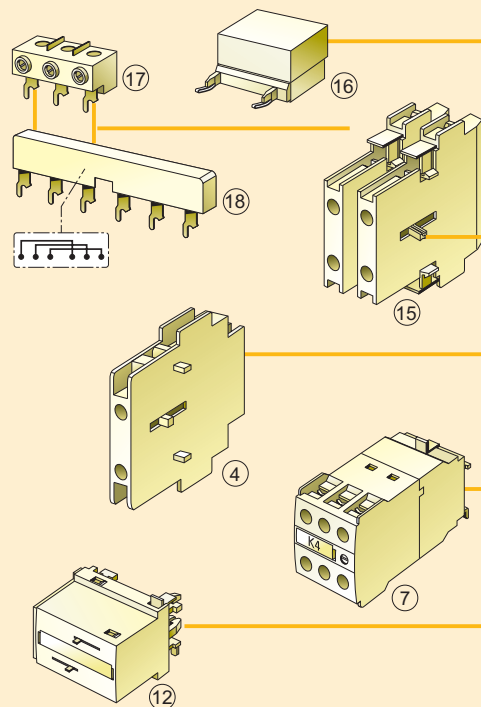
1) It can be only be mounted with contactors with screw terminals.

# 3RA14 Contactor Assemblies for Wye-Delta Starting

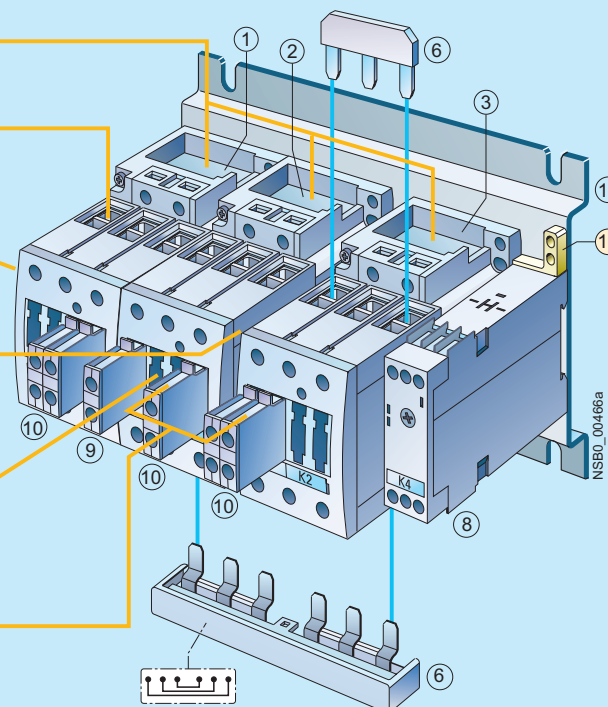
## 3RA14 complete units, 3 ... 75 kW

Fully wired and tested contactor assemblies · Size S2-S2-S2 · up to 45 kW

Mountable accessories (to be ordered separately):



The fully wired and tested contactor assembly includes the following components:



The connecting cables are not shown.

	Accessories	Order No.
4	Mechanical interlock, lateral	3RA19 24-2B
7	Solid-state time-delay auxiliary switch block, front <sup>1)</sup>	3RT19 26-2G . . .
12	Mechanical interlock, front	3RA19 24-1A
15	Auxiliary switch block, lateral	3RH19 21-1EA . .
16	Surge suppressors	3RT19 26-1 . . . . 3RT19 36-1 . . . .
17	3-phase feeder terminals	3RV19 35-5A
18	3-phase busbars	3RV19 35-1A
19	Push-in lug <sup>2)</sup> for timing relay screw mounting	3RP19 03

	Individual parts	Order No.	K1	K3	K2
1 2 3	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3
1 2 3	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3
8	8	8	8	8	8
9	9	9	9	9	9
10	10	10	10	10	10
11	11	11	11	11	11
6	6	6	6	6	6
	The installation kit contains the star jumper on the top and the wiring module on the bottom for connecting the main current paths.				

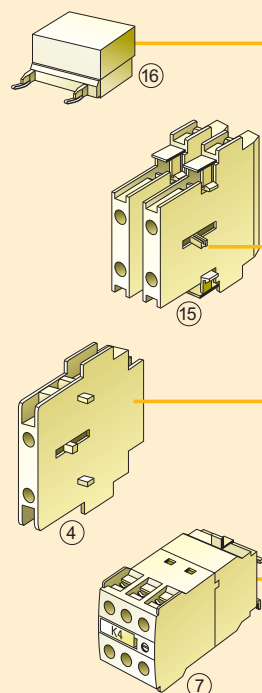
- 1) Generally possible. If a solid-state time-delay auxiliary switch block is mounted onto the front of K3, a standard auxiliary switch block can only be mounted onto the side.
- 2) Not part of the scope of supply of the preassembled contactor assemblies; can be ordered as an accessory.
- 3) See Monitoring and Control Devices: 3RP, 7PV timing relays -> 3RP15 timing relays in 22.5 mm industrial enclosure.

# 3RA14 Contactor Assemblies for Wye-Delta Starting

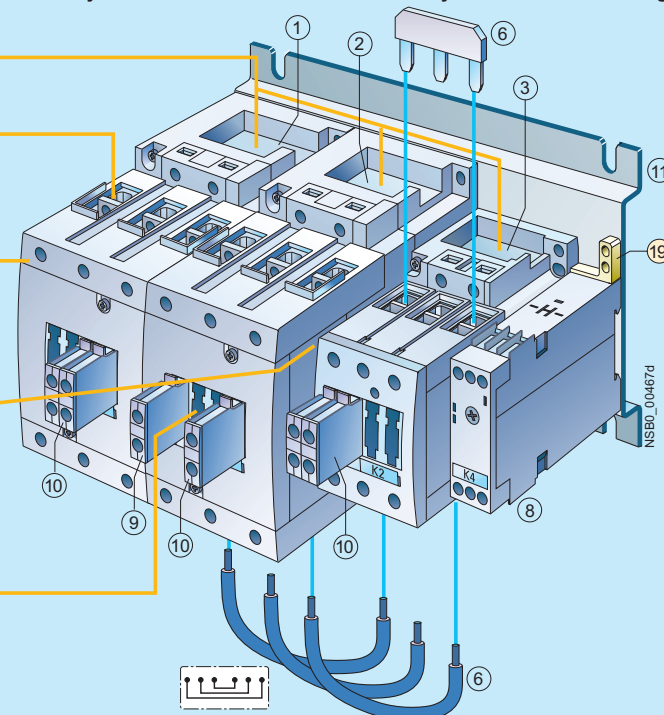
## 3RA14 complete units, 3 ... 75 kW

Fully wired and tested contactor assemblies · Size S2-S3-S2 · up to 75 kW

### Mountable accessories (to be ordered separately):



### The fully wired and tested contactor assembly includes the following components:



The connecting cables are not shown.

#### Accessories

#### Order No.

4	Mechanical interlock, lateral Depth compensation required K3: 0 mm; K2: 27.5 mm <sup>1)</sup>	3RA19 24-2B
7	Solid-state time-delay auxiliary switch block, front <sup>2)</sup>	3RT19 26-2G . . .
15	Auxiliary switch block, lateral	3RH19 21-1EA . .
16	Surge suppressors	3RT19 . 6-1 . . . .
19	Push-in lug <sup>3)</sup> for timing relay screw mounting	3RP19 03
20	1-phase feeder terminal	3RA19 43-3L

#### Individual parts

#### Order No.

	K1	K3	K2
1 2 3	44	44	35
1 2 3	45	45	36
8	3RP15 74-1N . 30		
9	3RH19 21-1CA10		
10	3RH19 21-1CA01		
	3RH19 21-1CA10		
11	3RA19 42-2E		
6	3RA19 43-2C		

The installation kit contains the star jumper on the top and the wiring module on the bottom for connecting the main current paths.

- 1) Use the 3RA19 42-2B base plate for this configuration.
- 2) Generally possible. If a solid-state time-delay auxiliary switch block is mounted onto the front of K3, a standard auxiliary switch block can only be mounted onto the side.
- 3) Not part of the scope of supply of the preassembled contactor assemblies; can be ordered as an accessory.
- 4) See Monitoring and Control Devices: 3RP, 7PV timing relays -> 3RP15 timing relays in 22.5 mm industrial enclosure.

## Moulded-plastic enclosures for surface mounting

### Enclosures for direct-on-line starter

Version	For contactor & overload relay Size	Order No.	Qty
With PE/ground terminal	S00	3RE19 13-1CB1	1
With N & PE/ground terminal	S0	3RE19 23-1CB2	1
With N & PE/ground terminal	S2	3RE19 33-1CB3	1



### Enclosures for reversing starter

With N & PE/ground terminal	S00/S0	3RE19 13-2CB3	1
-----------------------------	--------	---------------	---



## Fuseless selection type 2, I<sub>q</sub> = 50kA, IS/IEC:60947-4-1

- The selection is valid only for complete Siemens combinations i.e. MPCB / MCCB + contactor + bi-relay (+timer)
- In case this combination is changed to accommodate another brand/rating of MPCB/MCCB/contactor/BMR, it shall be the responsibility of the person making such a change to assure Type 2 performance.
- Selection is for normal starting conditions with starting time ≤ 6 seconds. For heavy starting applications (e.g. ID/FD fans, reciprocating compressor, ball mills etc.), please consult Siemens.
- Truly tested Type 2 combinations
- Low LCC = Low life cycle cost

### Direct-on-line feeder, for low LCC

SL motor		Circuit breaker <sup>\$</sup>		Contactor		Bi-relay	
kW 415V, 3ph, 50/60 Hz	I <sub>L</sub> Amp	Type	Amp	Type	Amp	Type (60°C)	Set-Range Amp
0,37	1.1	3RV2011-0KA10	1.25	3RT2015-1AP01	7	#	0.9 - 1.25
5.5	1.5	3RV2011-1AA10	1.6	3RT2015-1AP01	7	#	1.1 - 1.6
7.5	1.9	3RV2011-1BA10	2	3RT2015-1AP01	7	#	1.4 - 2
1.1	2.7	3RV2011-1BA10	3.2	3RT2015-1AP01	7	#	2.2 - 3.2
1.5	3.6	3RV2011-1EA10	4	3RT2015-1AP01	7	#	2.8 - 4
2.2	5	3RV2011-1GA10	6.3	3RT2024-1AP00	12	#	4.5 - 6.3
3	6.5	3RV2011-1HA10	8	3RT2024-1AP00	12	#	5.5 - 8
4	8.5	3RV2011-1JA10	10	3RT2024-1AP00	12	#	7 - 10
5.5	11.5	3RV2011-1KA10	12.5	3RT2024-1AP00	12	#	9 - 12.5
7.5	15.5	3RV2011-4AA10	16	3RT2026-1AP00	25	#	11 - 16
11	22	3RV2021-4DA10	25	3RT2027-1AP00	32	#	20 - 25
15	29	3RV2021-4EA10	32	3RT2027-1AP00	32	#	27 - 32
18.5	34	3RV10 31-4FA10	40	3RT10 35-1AL20	40	#	28 - 40
22	40	3RV10 31-4HA10	50	3RT10 36-1AL20	50	#	36 - 45
30	53	3RV10 41-4JA10	63	3RT10 44-1AL20	65	#	45 - 63
37	65	3RV10 41-4KA10	75	3RT10 45-1AL20	80	#	57 - 75
45	78	3RV10 41-4LA10	90	3RT10 46-1AL20	95	#	70 - 90
55	96	3RV10 41-4MA10	100	3RT10 54-6LA06	115	#	80 - 100
55	96	3VL27 10-1DK36-0AA0	100	3RT10 54-6LA06	115	3RU11 46-4MB0	80 - 100
75	131	3VL27 16-1DK36-0AA0	160	3RT10 55-6LA06	150	3UR62 30-5AA00-0AA7	85 - 135
90	156	3VL37 25-1DK36-0AA0	250	3RT10 56-6LA06	185	3UR62 30-5BA00-0AA7	115 - 180
110	189	3VL37 25-1DK36-0AA0	250	3RT10 64-6LA06	225	3UR62 30-5CA00-0AA7	160 - 250
132	227	3VL37 25-1DK36-0AA0	250	3RT10 65-6LA06	265	3UR62 30-5CA00-0AA7	160 - 250
160	271	3VL47 31-1DK36-0AA0	315	3RT10 66-6LA06	300	3UR62 30-5DA00-0AA7	200 - 320
200	339	3VL57 50-1DK36-0AA0	500	3RT10 76-6LA06	500	3UR62 30-5EA00-0AA7	250 - 400
250	398	3VL57 50-1DK36-0AA0	500	3RT10 76-6LA06	500	3UR68 30-5FA00-0AA7	320 - 500

\$ 3RV11 / 3RV21 'relay function' motor protection circuit-breaker can also be used in place of 3RV10 / 3RV20 motor protection circuit-breaker respectively

# 3RV10 comes with in-built overload protection, hence external bi-relay is eliminated

## Fuseless selection type 2, I<sub>q</sub> = 50kA, IS/IEC:60947-4-1

- The selection is valid only for complete Siemens combinations i.e. MPCB / MCCB + contactor + bi-relay (+timer)
- In case this combination is changed to accommodate another brand/rating of MPCB/MCCB/contactor/BMR, it shall be the responsibility of the person making such a change to assure Type 2 performance.
- Selection is for normal starting conditions with starting time ≤ 6 seconds. For heavy starting applications (e.g. ID/FD fans, reciprocating compressor, ball mills etc.), please consult Siemens.
- The electronic star-delta timer type 3RP should be used in star-delta feeders.
- Truly tested Type 2 combinations
- Low LCC = Low life cycle cost

### Star-Delta feeder, for Low LCC

SL motor			Circuit breaker		Contactor line/delta		Contactor star		Bi-relay		Timer
kW 415V, 3ph, 50/60 Hz	I <sub>L</sub> Amp	I <sub>ph</sub> A	Type	Amp	Type	Amp	Type	Amp	Type (60°C)	Set-Range Amp	Type
5.5	11.5	6.5	3RV2321-4AC10	16	3RT2026-1AP00	25	3RT2015-1AP01	7	3RU2126-1HB0	5.5 - 8	3RP15
7.5	15.5	9.2	3RV2321-4AC10	16	3RT2026-1AP00	25	3RT2015-1AP01	7	3RU2126-1JB0	7 - 10	3RP15
11	22	12	3RV2321-4DC10	25	3RT2027-1AP00	32	3RT2024-1AP01	12	3RU2126-4AB0	11 - 16	3RP15
15	29	16.2	3RV2321-4EC10	32	3RT2027-1AP00	32	3RT2024-1AP01	12	3RU2126-4BB0	14 - 20	3RP15
18.5	34	19.7	3RV13 31-4FC10	40	3RT10 35-1AL20	40	3RT10 24-1AL20	12	3RU11 36-4DB0	18 - 25	3RP15
22	40	23.2	3RV13 31-4GC10	45	3RT10 36-1AL20	50	3RT10 26-1AL20	25	3RU11 36-4EB0	22 - 32	3RP15
30	53	30.6	3RV13 41-4JC10	63	3RT10 44-1AL20	65	3RT10 26-1AL20	25	3RU11 46-4FB0	28 - 40	3RP15
37	65	37.5	3RV13 41-4KC10	75	3RT10 44-1AL20	65	3RT10 34-1AL20	32	3RU11 46-4HB0	36 - 50	3RP15
45	78	45	3RV13 41-4LC10	90	3RT10 45-1AL20	80	3RT10 34-1AL20	32	3RU11 46-4JB0	45 - 63	3RP15
55	96	55.4	3RV13 41-4MC10	100	3RT10 56-6LA06	185	3RT10 34-1AL20	32	3RU11 46-4JB0	45 - 63	3RP15
55	96	55.4	3VL27 10-1DK36-0AA0	100	3RT10 56-6LA06	185	3RT10 34-1AL20	32	3RU11 46-4JB0	45 - 63	3RP15
75	131	75.6	3VL27 16-1DK36-0AA0	160	3RT10 56-6LA06	185	3RT10 44-1AL20	65	3RU11 46-4LB0	70 - 90	3RP15
90	156	90.1	3VL37 25-1DK36-0AA0	250	3RT10 64-6LA06	225	3RT10 44-1AL20	65	3RU11 46-4MB0	80 - 100	3RP15
110	189	109	3VL37 25-1DK36-0AA0	250	3RT10 64-6LA06	225	3RT10 54-6LA06	115	3UR62 30-5AA00-0AA7	85 - 135	3RP15
132	227	131.1	3VL37 25-1DK36-0AA0	250	3RT10 65-6LA06	265	3RT10 54-6LA06	115	3UR62 30-5AA00-0AA7	85 - 135	3RP15
160	271	156.5	3VL47 31-1DK36-0AA0	315	3RT10 66-6LA06	300	3RT10 54-6LA06	115	3UR62 30-5BA00-0AA7	85 - 135	3RP15
200	339	195.7	3VL57 50-1DK36-0AA0	500	3RT10 76-6LA06	500	3RT10 56-6LA06	185	3UR62 30-5CA00-0AA7	160 - 250	3RP15
250	398	229.8	3VL57 50-1DK36-0AA0	500	3RT10 76-6LA06	500	3RT10 65-6LA06	265	3UR62 30-5CA00-0AA7	160 - 250	3RP15

# Notes

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....



# Your partners

## Sales offices:

**Ahmedabad**  
3rd Floor, Prerna Arbur  
Girish Cold Drinks Cross Roads, Off G.C.Road  
Ahmedabad - 380 009  
☎ : +91 79 40207600  
Fax: +91 79 40207699

**Bengaluru**  
1st Floor, Jyoti Mahal, No. 49, St. Marks Road  
Bengaluru - 560 001  
☎ : +91 80 22042000  
Fax: +91 80 22224131

## Territory managers:

**Aurangabad**  
A9, Yogeshwari Vrundavan, Nr. Malhar Chowk  
Garkheda Parisar, Prem Nagar  
Aurangabad - 431210, Maharashtra  
Mobile: +91 9766316446  
E-mail: santosh.rajhans@siemens.com

**Baroda**  
3rd Floor, OHM Business Park  
Opp.Balaji Hospital, Ellora Park, Shubhanpura  
Baroda - 390023  
☎ : + 91 265-669210  
Mobile: +91 9825506962  
E-mail: bhushan.sawant@siemens.com

**Belgaum**  
H.No. 713, Narvekar Lane, Shahpur  
Belgaum - 590008, Karnataka  
☎ : +91 831 2495156  
Mobile: +91 9740277991  
E-mail: anand.gawade@siemens.com

**Bhilai**  
25/2, Nehru Nagar (West), SBI Colony  
Bhilai - 490020, Chhattisgarh  
Mobile: +91 7869913404  
E-mail: prashant.ghate@siemens.com

**Bhopal**  
Flat No. 104, Sagar Home Phase-2  
Sarvadhama Society, Nayapura Road  
Bhopal - 462042, Madhya Pradesh  
Mobile: +91 9977228084  
E-mail: prajwal.khapekar@siemens.com

**Bhubaneswar**  
Flat No. 109, Hara Priya Apartment  
Vivekanand Marg  
Bhuwaneshwar - 751002, Orissa  
Mobile: +91 9937097504  
E-mail: sumit.sengupta@siemens.com

**Calicut**  
Door No. 19/C - 192 CPM House  
Naderi (PO), Koyilandy (via)  
Calicut - 673326  
☎ : +91 9645963636  
E-mail: ragesh.ri@siemens.com

**Chandigarh**  
SCO 188/191, 3rd Floor, Sector-17 C  
Chandigarh - 160 017  
☎ : +91 172 4690300  
Fax: +91 172 4690399

**Chennai**  
Sathak Centre, No.4., Mahatma Gandhi Road  
Chennai - 600034  
☎ : +91 44 28334000  
Fax: +91 44 28334088

**Cochin**  
K.G.Oxford Business Centre  
3A, Shreekandath Rd, Ravipuram  
Cochin - 682016  
☎ : +91 4028611/22  
Mobile: +91 9387384848  
E-mail: sudheer.ts@siemens.com

**Cochin**  
K.G.Oxford Business Centre  
3A, Shreekandath Rd, Ravipuram  
Cochin - 682016  
Mobile: +91 9744511109  
E-mail: sajeen.s@siemens.com

**Dehradun**  
32, Dhronpuri, Main Lane, G.M.S.  
Deharadun - 248001, Uttarakhand  
Mobile: +91 8650404404  
E-mail: shashibhushan.prasad@siemens

**Durgapur**  
14, Dinabandhu Mitra Path  
Near Kavi Guru Middle Stop  
SAIL Co-Operative Area, City Centre  
Durgapur - 713216  
Mobile: +91 9874343052  
E-mail: rana.mitra@siemens.com

**Guwahati**  
G-1, Hill View Apartment  
Navagraha Path, Chenikuthi Hill Side  
Guwahati - 781003, Assam  
Mobile: +91 9864110684  
E-mail: biplab.datta@siemens.com

**Guwahati**  
G-1, Hill View Apartment  
Navagraha Path, Chenikuthi Hill Side  
Guwahati - 781003, Assam  
Mobile: +91 9435346708  
E-mail: Sourav.Bhattacharya@siemens.com

**Haridwar**  
6, Nand Puri, Nr. Aya Nagar Chowk, Jwalapur  
Hardwar - 249407, Uttarkhand  
☎ : +91 1334 251943  
Mobile: +91 9897070133  
E-mail: ankur.singh@siemens.com

**Coimbatore**  
7th Floor, Global Towers, 1057, Avinash Road  
Coimbatore - 641 018  
☎ : +91 422 4336300  
Fax: +91 422 4336310

**Hyderabad**  
5-9-19, 4th & 5th Floor, Laxmi Narasinh Estate  
Opp. Secretariat Road, Saifabad  
Hyderabad - 500 004  
☎ : +91 40 2348 2500  
Fax: +91 40 23243145

**Indore**  
Flat No. 102, Panchavati Apart.  
40 Chandralok Colony, Khajrana Road  
Indore - 452001, Madhya Pradesh  
Mobile: +91 9926939993  
E-mail: prashant.joshi@siemens.com

**Jaipur**  
6, Park Street, Opp. Pink City Petrol Pump, M.I.Road  
Jaipur - 302001, Rajasthan  
☎ : +91 141 5152108  
Mobile: +91 9829244313  
E-mail: gupta.arun@siemens.com

**Jalandhar**  
H.No.943, Urban Estate, Phase I  
Jalandar - 144022, Punjab  
☎ : +91 181 4613929  
Mobile: +91 9876047929  
E-mail: sunil.singla@siemens.com

**Jamshedpur**  
823, Udaigiri Vijaya Heritage, Uliyan, Kadma  
Jamshedpur - 831005, Jharkhand  
☎ : +91 657 6451637  
Mobile: +91 9934311352  
E-mail: shaibal.parial@siemens.com

**Jodhpur**  
371, Gauri House  
Kamala Nehru Nagar, Nr. SBI Bank  
Jodhpur - 342008, Rajasthan  
☎ : +91 291 2760371  
Mobile: +91 9828327200  
E-mail: naveen.sahariya@siemens.com

**Kanpur**  
Flat No.403, Gulmohar Garden Phase II  
Near Mariampur Hospital, Chain Factory  
Shastri Nagar  
Kanpur - 208005  
Mobile: +91 8009900939  
E-mail: shagun.gupta@siemens.com

**Kolkata**  
43, Shanti Palli, Rashbihari Bypass Connector  
Eastern Metropolitan Bypass  
Kolkata - 700 042  
☎ : +91 33 2444 9000, 24428641-47  
Fax: +91 33 2444 9010/13

**Lucknow**  
28/45, Ashok Marg, Opp. Indira Bhawan  
Lucknow - 226001  
☎ : +91 522 4031022, 4031000  
Fax: +91 522 4031019

**Kolhapur**  
Flat No.101, Shrushti Mahabharat Apartment  
Mahavir Garden To Mahavir College Road, Nagala Park  
Kolhapur - 416003  
☎ : +91 231 2663330  
Mobile: +91 99261465421  
E-mail: sachin.chavan@siemens.com

**Ludhiana**  
H.No.92, Lajpat Nagar, Near Bus Stand  
Ludhiana - 141002, Punjab  
☎ : +91 161 2770574  
Mobile: +91 9815502480  
E-mail: rohit.jagga@siemens.com

**Ludhiana**  
H.No.95, 1st Floor, Model Gram Extension  
Near Bank of India  
Ludhiana - 141002, Punjab  
Mobile: +91 9888484066  
E-mail: padam.sharma@siemens.com

**Madurai**  
8/12, Ground Flr.  
Sakhti Vellammal Street, SS colony  
Madurai - 625010, Tamil Nadu  
Mobile: +91 9894617780  
E-mail: mahendiran.murugan@siemens.com

**Nashik**  
"Aditya Avenue", Flat No.27, 4th Floor, B-Wing  
Near Chandak Circle, Tidke Colony  
Nasik - 422001, Maharashtra  
Mobile: +91 9822193204  
E-mail: kiran.kanhurkar@siemens.com

**Pondicherry**  
"Raghavendra ILLAM", Gnd Floor  
No 21, 3rd Cross Street, Anna Nagar  
Pondicherry - 605005  
Mobile: +91 9840143536  
E-mail: lakshmanan.s@siemens.com

**Raipur**  
Flat No.103, First Floor, Block-B, Shilp Enclave  
Nr. IAS Colony, Shankar Nagar  
Raipur - 492007, Chhattisgarh  
Mobile: +91 9425057945  
E-mail: brajesh.rathor@siemens.com

**Mumbai**  
8th Floor, R&D Technology Centre  
Thane Belapur Road, Airoli Node  
Navi Mumbai - 400 708  
☎ : +91 22 2764 5005-6  
Fax: +91 22 27645867

**Nagpur**  
5th Floor, Land Mark Building  
Wardha Road, Ramdas Peth  
Nagpur - 440 010  
☎ : +91 712 6633000  
Fax: +91 712 6633111

**Rajkot**  
"Vrujraj", Chandanpark Society  
Opp. Gyanganga Vidhyapith, Nr. Raiya Circle  
Rajkot - 360005, Gujarat  
Mobile: +91 9825021026  
E-mail: hiren.raythatha@siemens.com

**Ranchi**  
H-1/187, Harmu Housing Colony, Harmu  
Ranchi - 834002, Jharkhand  
Mobile: +91 9234610953  
E-mail: sourav.dasgupta@siemens.com

**Renukoot**  
Above ICICI Prudential Office, Patel Nagar  
Murdhewa, Distt. Sonbhadra  
Renukoot - 231217, Uttarpradesh  
☎ : +91 544 254693  
Mobile: +91 9838007897  
E-mail: bhav.srivastava@siemens.com

**Rourkela**  
HIG - B/207, Phase - 3, Kalinga Vihar, Chhnd  
Rourkela - 769015, Orissa  
Mobile: +91 9438529778  
E-mail: samir.chintak@siemens.com

**Rudrapur**  
13/14, Model Colony  
Nr. Gopinath Mandir, Station Road  
Rudrapur - 263153, Distt. Udham Singh Nagar  
Uttarkhand  
Mobile: +91 9839813707  
E-mail: singh.ajay@siemens.com

**Salem**  
3/25, Santosh Nagar  
PACB Backside, Chinnathirupathi  
Salem - 8  
☎ : +91 427 2401981  
Mobile: +91 9894617772  
E-mail: rubengerald.s@siemens.com

**Surat**  
Flat No. 202, D-1, Suryam Residence  
Cause Way Road, Opp. Hari Darshan  
Shingapor-Dabholi Road, Katargam  
Surat - 395004, Gujarat  
Mobile: +91 9925001779  
E-mail: chandrakant.keshrani@siemens.com

**New Delhi**  
4A, Ring Road, I.P.Estate, Box.No.7036  
New Delhi - 110 002  
☎ : +91 11 2345 5000-09  
Fax: +91 11 42995030

**Pune**  
Tower B/701-705, ICC Trade Tower  
403A, Senapati Bapat Road  
Pune - 411016  
☎ : +91 20 2570 6000  
Fax: +91 20 2570 6060

**Trichy**  
Door No.106, Grd. Flr., 5th Cross Street  
Vidyalalai Road, Ganapthy Nagar, Thiruvanaï Koil  
Trichy - 605005  
☎ : +91 431 4345621  
Mobile: +91 9840843121  
E-mail: k.saravanakumar@siemens.com

**Trivandrum**  
Udayakiran, T.C.No.28/535  
Krishnakovil Road, Kaithamukku  
Trivandrum - 695024, Kerala  
Mobile: +91 9895979604  
E-mail: antony.john@siemens.com

**Udaipur**  
303, Oasis Park, PP Singhal Marg, Ambavgarh  
Udaipur - 313001, Rajasthan  
☎ : +91 294 2430345  
Mobile: +91 9829039120  
E-mail: ajit.parashar@siemens.com

**Vapi**  
Flat No.302, Samraja IV, Royal Residency  
Gokul Vihar Township, Charwada Road  
Vapi - 396195, Gujarat  
☎ : +91 260 6451156  
Mobile: +91 9825147957  
E-mail: sachin.paradkar@siemens.com

**Vijaywada**  
74-32-1, Flat No.304, Tummala Residency  
Opp. Current Office Pandaripuram, Ashok Nagar  
Vijayawada - 520007, Andhra Pradesh  
☎ : +91 866 3060833  
Mobile: +91 9866463639  
E-mail: santosh.p@siemens.com

**Vizag**  
Flat No. 401, Door No. 9-19-6  
Vinayagar South Avenue, CBM Compound  
Vishakhapatnam - 530003, Andhra Pradesh  
☎ : +91 891 6462229  
Mobile: +91 98492 12555  
E-mail: kvs.prasad@siemens.com

Siemens Ltd.  
Industry Sector  
Control and Global Components  
R&D Technology Centre  
Kalwa Works, Thane Belapur Road, Thane - 400 601  
Fax: +91 22 27645627  
E-mail: lvsgr-mktg.india@siemens.com

Order No.: 103577393  
SGR-01-103-054  
(This replaces SGR-01-103-049)

Customer Care Toll free no. 1800 220 987 / 1800 209 0987  
Email: adscs.india@siemens.com

[www.siemens.com/industry](http://www.siemens.com/industry)

Product upgradation is a continuous process. Hence, data in this catalog is subject to change without prior notice.  
For the latest information, please get in touch with our Sales Offices.