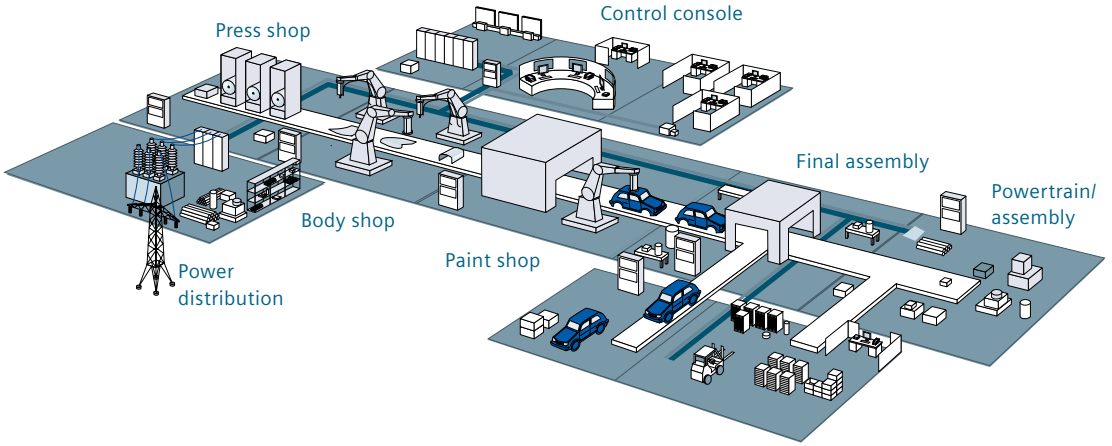
SIEMENS

Ingenuity for life

SIRIUS modular system. The perfect combination

Switching, protecting, starting and monitoring with the highly flexible modular system

Everything for the control cabinet: the SIRIUS modular system.



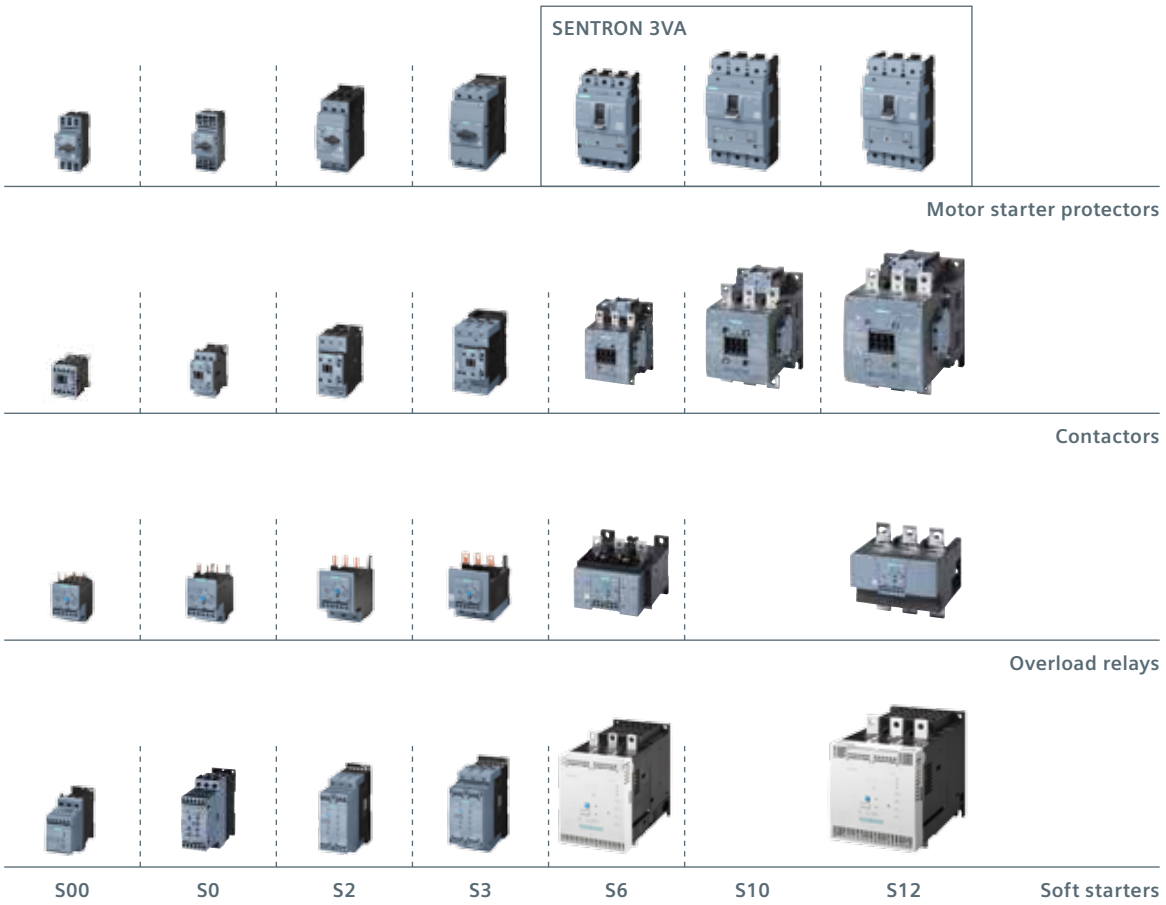
Processing, fitting, transporting. These and similar functions run on many automated production lines. With the extensive range of the SIRIUS modular system, you will find everything you need for switching, protecting, starting and monitoring motors.

Everything. Really easy. With SIRIUS.

Contents

Everything. Systematically. SIRIUS modular system.

Building control cabinets must be fast, simple, flexible and space-saving. How can all this be achieved? With the unique SIRIUS modular system that offers everything you will need for switching, protecting, and starting motors and systems. In other words, it provides a modular range of standard components up to 250 kW/400 V in only seven sizes, which are perfectly matched to one another, can be combined really easily, and largely use the same accessories. That's how easy industrial controls can be!



Continuous further development and regular innovations ensure that our customers are optimally equipped with SIRIUS and benefit from efficient solutions – now and in the future. All the components that make up the SIRIUS modular system are characterized by a space-saving design and a high degree of flexibility. Configuring, installing, wiring and maintenance are extremely easy and time-saving to perform. So no matter whether you want to configure load feeders with motor starter protectors, overload relays, contactors/solid-state contactors or soft starters, SIRIUS has just the product you will need for any application.

Thanks to the latest innovations to the modular system in sizes S00, S0, S2 and S3 up to 115 A, today's SIRIUS modular system offers even more functional diversity.

In addition to the basic components, the innovated SIRIUS modular system offers new, never-before-seen highlights:

- Feeder assemblies that can be plugged in completely without tools thanks to the consistent use of spring-loaded connections in sizes S00 and S0
- 2- and 3-phase 3RR2 monitoring relays for current monitoring for direct mounting on contactors (up to size S2)
- 3RA27 and 3RA28 function modules feature snap-on connection to contactors enabling the easiest possible assembly of direct-on-line starters, reversing starters, and star-delta (wye-delta) starting, and connection to the controller using less wiring via AS-Interface or IO-Link
- 3RB24 overload relay with communication capability, current value transmission, and control of the contactors via IO-Link
- One highlight of the SIRIUS devices is their IE3 and IE4 suitability, so that they are optimally equipped for conversion to the new IE3 and IE4 generation of motors

At a glance. The components of the SIRIUS modular system offer a host of benefits.

With its wide range of components, the SIRIUS modular system features the most diverse functions for use in the control cabinet, and offers a host of benefits in assembly and handling, in application monitoring, and also in controller interfacing, or when planning and configuring.

Assembly and handling:

Error prevention and reduced wiring effort – with maximum flexibility

- **Load feeders:** easy to implement up to 250 kW/400 V from standard devices
- **Modular design:** everything fits together and can be combined
- **Variants and sizes:** economical and flexible thanks to 7 compact sizes
- **Accessories:** low variance with uniform accessories
- **Configuration:** fast commissioning, short setting-up times, and simple wiring
- **Mounting:** permanently secure mounting, with screw terminals or simply by plugging in
- **Spring-loaded connection system:** quick and secure connection, vibration-proof, and maintenance-free
- **Reduced wiring:** significant reductions in cable connections thanks to plug-in design and IO-Link or AS-Interface

Applications at a glance:

Increased operational reliability and system availability

- **Maintenance:** extremely durable, low maintenance, and reliable
- **Application monitoring:** integrated extremely flexibly into the feeder – thanks to monitoring relays for current monitoring
- **IE3/IE4-ready:** With the SIRIUS modular system, we also offer you our familiar reliability when converting to IE3 and IE4 motors

Connection to the automation level:

Optimal integration into the automation environment

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

Planning and configuration:

Simplified system planning and documentation

- **Configuration:** easy and fast thanks to extensive CAx data provision
- **Service:** short delivery times even for spare parts thanks to global logistics network
- **Environment:** environmentally friendly production and materials, recyclable
- **Design:** clear, ergonomic design (winner of the iF Product Design Award)
- **Configurator:** for the simplest possible selection of products including accessories
- **Global use:** thanks to comprehensive approvals

Switching. Protecting. Starting. Monitoring.
The components of the SIRIUS modular system.

Much more than ON/OFF: SIRIUS 3RV motor starter protectors

The SIRIUS 3RV motor starter protectors are compact, current-limiting motor starter protectors. They ensure secure disconnection in case of a short circuit, and they protect consumers and the system against overload. They are also suited to normal switching duties for loads with a low switching frequency, and for safely isolating the system from the power supply during maintenance work or modifications. For applications over 100 A, SENTRON 3VA and 3VL circuit breakers are suitable.

Rugged and reliable: SIRIUS 3RT contactors

Thanks to their extreme ruggedness and outstanding contact reliability, our contactors switch supremely and reliably.
In addition, they enable compact control cabinets with high packing density. With integrated ranges of accessories for sizes S00 to S3 as well as S6 to S12, individual function expansions can be implemented with no great effort.
In sizes S00 to S3, the contactors even have the auxiliary switches integrated into the enclosure.

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

The overload relays of the SIRIUS family are available in thermal and electronic versions, and they are responsible for the inverse-time-delayed overload protection in the main circuit. The SIRIUS 3RB electronic overload relays ensure seamless protection for motors and systems from 0.1 A to 630 A. This current range can be covered with a minimum number of variants thanks to the large setting range.

Simplest possible application monitoring: SIRIUS 3RR2 current monitoring relays

The SIRIUS current monitoring relays monitor not so much the motor as the entire plant or driven process for overcurrent and undercurrent, wire break, or phase failure. Thus, load shedding or overload of an application, for example, is detected quickly and reported early. The 3RR2 monitoring relay for current monitoring is integrated directly into the load feeder in sizes S00, S0 and S2. Just attach it to the contactor, and click 'n' go.

Soft starting: SIRIUS 3RW soft starters

SIRIUS 3RW soft starters offer a complete range that covers all standard and high-feature applications of motor starting. Thus the benefits of soft starting can be reaped in the most diverse applications up to 250 kW (at 400 V) for simple and economical implementation of optimum machine concepts. Economical and space-saving soft starting can be implemented up to 55 kW (at 400 V) with the compact 3RW30 with two-phase control. The 3RW40 also offers soft run-down as well as integrated intrinsic device protection functions and motor protection functions. An additional overload relay can therefore be dispensed with. SIRIUS soft starters are available for line voltages up to 600 V – optionally also with thermistor motor protection evaluation.

Switching. Protecting. Starting. Monitoring. The components of the SIRIUS modular system.

Master the highest switching frequencies with confidence: SIRIUS 3RF solid-state contactors

SIRIUS solid-state contactors (size S0) for switching motors impress with their almost limitless service life – even under harsh conditions and at high switching frequencies. The three-phase solid-state contactors switch motors completely silently up to 7.5 kW.
A special reversing contactor version enables changing of the direction of rotation of motors up to 3 kW. The compact devices in widths of 45 or 90 mm can be combined with our motor starter protectors, current monitoring relays, or electronic overload relays.
For fast and simple assembly of fuseless and fused motor feeders.

Compact switching and protecting: SIRIUS 3RA6 compact starters and 3RM1 motor starters

Equipped with the functions of a motor starter protector, a contactor, and an electronic overload relay, the 3RA6 compact starter as a direct-on-line or reversing starter up to 32 A offers maximum reliability with minimum variance. There is reduced wiring in the main circuit thanks to the ingeniously simple infeed system, including PE connection. Thanks to the optional AS-Interface or integrated IO-Link interface, 3RA6 compact starters are integrated into the Totally Integrated Automation design concept.

The 3RM1 direct-on-line or reversing starters up to 7 A reduce width even further to one half the previous size, and are thus master space-savers. Fail-safe design versions offer the greatest possible economizing on switching device deployment in safety-related applications.

SIRIUS contactor with spring-loaded terminals

Faster wiring thanks to integrated spring-loaded terminals

All products with 45-mm widths (S00- and S0-size series) in the main as well as auxiliary and control circuits are available with spring-loaded terminals in addition to the conventional screw terminals. This accelerates device connection, and offers maximum operational safety and reliability. The extremely simple wiring guarantees fast installation. Another advantage is that the gas-tight terminal connection is resistant to shaking and vibration.
In addition, you benefit from maximum contact reliability – even under the harshest of conditions. There's no need to subsequently re-tighten the connection terminals (often the usual practice).
One particular advantage is that the link modules for direct-on-line, reversing and star-delta (wye-delta) starting are also available with spring-loaded terminals. This enables you to install entire feeders entirely without tools. Spring-loaded terminals in the auxiliary circuit are optionally available in sizes S2 and S3.

SIRIUS contactor with screw terminals

Maximum flexibility when it comes to connections

All the components of the SIRIUS modular system are, of course, also available with screw terminals for special requirements such as mechanical engineering in the semiconductor industry. In sizes with design widths of 70 mm and larger (i.e. as of size S3), additional possible connection options are available such as for connecting cable terminal lugs to device connection bars, or connecting cables with large cross sections to box terminals.

Switching. Protecting. Starting. Monitoring.
The components of the SIRIUS modular system.

Straight to the point:
the 3RA21 direct-on-line starter

Phases swapped:
the 3RA22 reversing starter

Two stages – one start:
the 3RA24 contactor
assembly for star-delta start

Ready for immediate use: pre-wired SIRIUS load feeders

Load feeders start loads with a combination of protection and switching functions. To reduce time and costs, and above all to minimize standstill times, we offer you a wide range of pre-wired starter solutions:

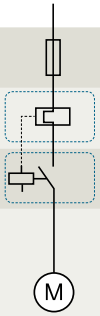
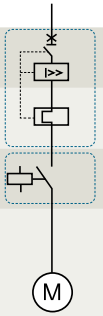
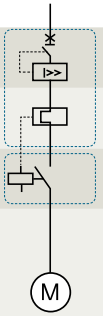
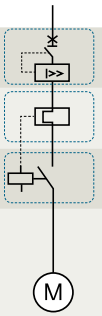
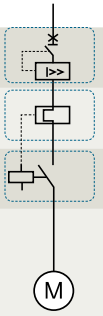
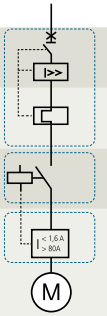
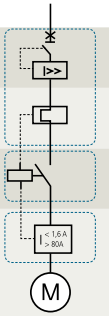
- Direct-on-line starters up to 30 kW and reversing starters up to 15 kW – the right starter combination for all motors – both for standard rail mounting and with 60 mm standard mounting rail adapters.
- Reversing contactor assemblies up to 55 kW – the appropriate combination for reversing duty – for fast rotation direction changes of motors
- Contactor assemblies for star-delta starting up to 90 kW – the solution for starting in stages for reducing start-up current peaks of motors.
- Soft starters – when soft starting and stopping are required (in the case of the 3RW40 even with integral overload protection).

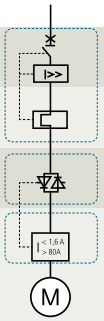
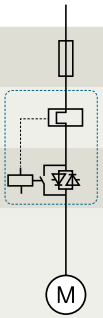
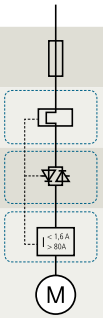
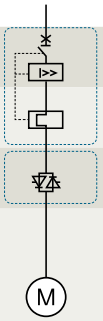
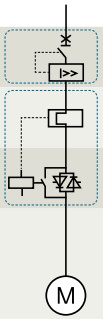
An almost unlimited number of further tested combinations can be assembled easily from the individual components. The following manuals help you to make your selection, and they can be found in the Industry Online Support Portal at http://support.automation.siemens.com.

SIRIUS modular system
Configuration Manual "Configuring the SIRIUS Modular System – Selection Data for Fuseless and Fused Load Feeders"

Configuration instructions for IE3 and IE4 motors
Application manual for SIRIUS switching devices with IE3 and IE4 motors

Combination of switching devices and protective devices

Electromechanical switching devices	Contactor and overload relay with fuse	Motor starter protector for motor protection and contactor	Motor starter protector for motor protection with relay function and contactor	Motor starter protector for starter protection, contactor and overload relay	Compact starter	Motor starter protector for motor protection, contactor and current monitoring relay	Motor starter protector for motor protection with relay function, contactor and current monitoring relay
Short circuit							
Overload							
Switching							
Monitoring							
	Fused	Fuseless					

Solid-state switching devices	Mot. starter protector for motor protection, solid-state switching device (soft starter or solid-state contactor) and curr. monit. relay	Fuse and soft starter	Fuse, solid-state switching device and current monitoring relay	Motor starter protector for motor protection and solid-state switching device (soft starter or solid-state contactor)	Motor starter protector for motor protection, 3RM1 motor starter
Short circuit					
Overload					
Switching					
Monitoring					
	Fuseless	Fused		Fuseless	

Convenient power infeed and distribution: SIRIUS 3RV29 and 3RA68 infeed systems.

Efficient and flexible power distribution

The components of the SIRIUS modular system can be wired extremely flexibly. For sizes S00 and S0, the simplest method is to connect the components via the associated SIRIUS 3RV29 infeed system in each case. Alongside this, the 3RA68 infeed system is available in conjunction with the 3RA6 compact starter – and both connection methods are available optionally for devices with screw and spring-loaded terminals. Individual motor starter protectors, complete load feeders, and compact starters are just clicked into the infeed systems. An entire feeder group is thus supplied with energy without any time-consuming wiring and with no risk of error – just click and go!
Alternatively, you can also use conventional wiring: by means of parallel wiring, 3-phase busbars or 8US busbar adapters with which SIRIUS load feeders can be mounted directly on a 60 mm busbar system.

These diverse combination options provide you with the most effortless solution to implement your individual control cabinets – simply perfectly tailored to your application.

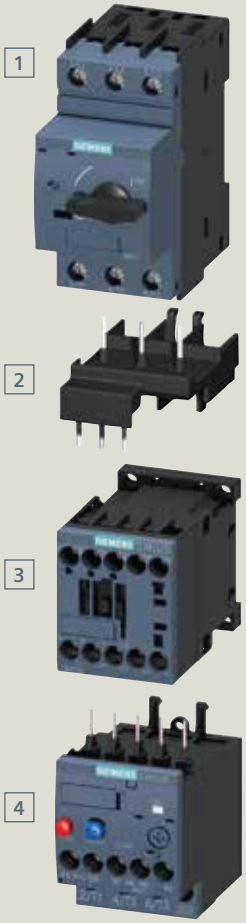
Assembly – Highlights

- Consistent use throughout by combining 3RV29 and 3RA68 modules
- New flexibility for installation and expansion
- More free space in the control cabinet – thanks to extremely compact design
- Infeed (3RA68) either on the left or right with conductor cross section up to 70 mm²
- Optional wiring channel between the feeders
- Additional integration of further 1-, 2- or 3-pole components via terminal block
- Maximum current carrying capacity of 100 A (3RA68)
- Integration of load feeders with screw and spring-loaded terminals
- High vibration resistance, especially for switching devices with spring-loaded terminals
- Time savings during installation thanks to simple plug-in design
- For 3RA68 infeed system also with PE connection option

Fuseless assembly

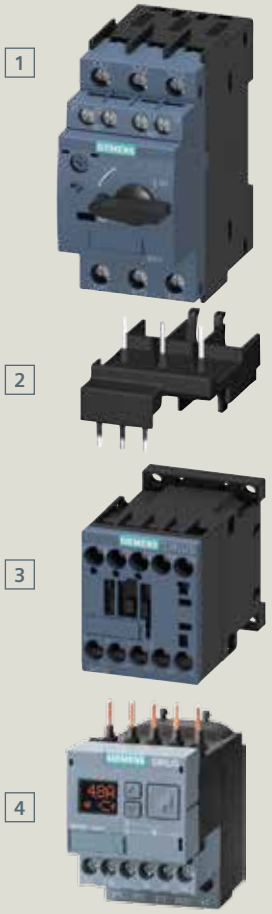
Assembly up to 7.5 kW (S00)

Motor starter protector for starter protection, contactor with overload relay



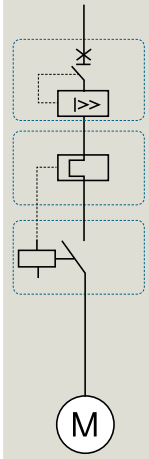
	Type	Screw terminals	Spring-loaded terminals
1	Motor starter protector	3RV2311-□□□1□	3RV2311-□□□2□
2	Link module	3RA1921-1DA00	3RA2911-2AA00
3	Contactor (AC/DC)	3RT201□-1□□□□	3RT201□-2□□□□
4	Overload relay	3RU2116-□□B0 or 3RB3□1□-□□B0	3RU2116-□□C0 3RB3016-□□E0

Motor starter protector for motor protection, contactor with current monitoring relay



	Type	Screw terminals	Spring-loaded terminals
1	Motor starter protector	3RV2011-□□□1□	3RV2011-□□□2□
2	Link module	3RA1921-1DA00	3RA2911-2AA00
3	Contactor (AC/DC)	3RT201□-1□□□□	3RT201□-2□□□□
4	Current monitoring relay	3RR2□41-1□□□□	3RR2□41-2□□□□

Starter combinations in size S00: motor starter protector for starter protection, contactor and overload relay



Standard three-phase motor 4-pole at 400 V AC		MSPs for starter protection		Contactors (aux. contacts 1NO or 1NC integrated)			Overload relays			
		MSP rated current	Article No.	Rated operational current	Article No.	Article No.	Setting range	Article No. thermal overload relay	Setting range	Article No. electronic overload relay
[kW]	[A]	[A]		[A]	24 V DC	230 V AC, 50/60 Hz	[A]	CLASS 10	[A]	CLASS 10E
0.04	0.16	0.16	3RV2311-0AC□0				0.11 – 0.16	3RU2116-0A □0		
0.06	0.20	0.2	3RV2311-0BC□0				0.14 – 0.2	3RU2116-0B □0		
0.06	0.20	0.25	3RV2311-0CC□0				0.18 – 0.25	3RU2116-0C □0	0.1 – 0.4	3RB3016-1R □0
0.09	0.30	0.32	3RV2311-0DC□0				0.22 – 0.32	3RU2116-0D □0		
0.09	0.30	0.4	3RV2311-0EC□0				0.28 – 0.4	3RU2116-0E □0		
0.12	0.44	0.5	3RV2311-0FC□0				0.35 – 0.5	3RU2116-0F □0		
0.18	0.60	0.63	3RV2311-0GC□0				0.45 – 0.63	3RU2116-0G □0		
0.18	0.60	0.8	3RV2311-0HC□0				0.55 – 0.8	3RU2116-0H □0	0.32 – 1.25	3RB3016-1N □0
0.25	0.85	1	3RV2311-0JC □0	7	3RT2015-□BB4□	3RT2015-□AP0□	0.7 – 1	3RU2116-0J □0		
0.37	1.10	1.25	3RV2311-0KC□0				0.9 – 1.25	3RU2116-0K □0		
0.55	1.50	1.6	3RV2311-1AC□0				1.1 – 1.6	3RU2116-1A □0		
0.75	1.90	2	3RV2311-1BC□0				1.4 – 2	3RU2116-1B □0		
0.75	1.90	2.5	3RV2311-1CC□0				1.8 – 2.5	3RU2116-1C □0	1 – 4	3RB3016-1P □0
1.1	2.70	3.2	3RV2311-1DC□0				2.2 – 3.2	3RU2116-1D □0		
1.5	3.60	4	3RV2311-1EC□0				2.8 – 4	3RU2116-1E □0		
1.5	3.60	5	3RV2311-1FC□0				3.5 – 5	3RU2116-1F □0		
2.2	4.90	6.3	3RV2311-1GC□0				4.5 – 6.3	3RU2116-1G □0	3 – 12	3RB3016-1S □0
3	6.50	8	3RV2311-1HC□0				5.5 – 8	3RU2116-1H □0		
4	8.50	10	3RV2311-1JC □0	9	3RT2016-□BB4□	3RT2016-□AP0□	7 – 10	3RU2116-1J □0		
5.5	11.5	12.5	3RV2311-1KC□0	12	3RT2017-□BB4□	3RT2017-□AP0□	9 – 12.5	3RU2116-1K □0	4 – 16	3RB3016-1T □0
7.5	15.5	16	3RV2311-4AC□0	16	3RT2018-□BB4□	3RT2018-□AP0□	11 – 16	3RU2116-4A □0		

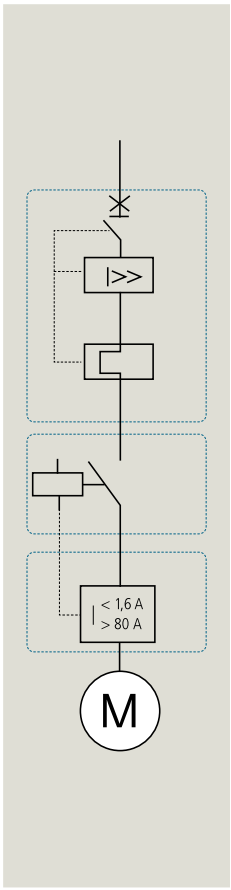
Screw terminals: 1
Spring-loaded terminals: 2

Screw terminals: 1
Spring-loaded terminals: 2
1NO: 1
1NC: 2

Screw terminals: B
Spring-loaded terminals: C

Screw terminals: B
Spring-loaded terminals: E

Starter combinations in size S00: motor starter protector for motor protection, contactor and current monitoring relay



Standard three-phase motor 4-pole at 400 V AC		MSPs for motor protection		Contactors (aux. contacts 1NO or 1NC integrated)			Current monitoring relays		
		Setting range for thermal overload release CLASS 10	Article No.	Rated operational current	Article No.	Article No.	Meas. range	Article No. Basic (analog adjustable)	Article No. Standard (digital adjustable)*
					Control supply voltage				
[kW]	[A]	[A]		[A]	DC 24 V	230 V AC, 50/60 Hz	[A]		
0.04	0.16	0.11 – 0.16	3RV2011-0AA□0	7	3RT2015-□BB4□	3RT2015-□AP0□	1.6 – 16	3RR2141-□A□30	3RR2241-□F□30
0.06	0.20	0.14 – 0.2	3RV2011-0BA□0						
0.06	0.20	0.18 – 0.25	3RV2011-0CA□0						
0.09	0.30	0.22 – 0.32	3RV2011-0DA□0						
0.09	0.30	0.28 – 0.4	3RV2011-0EA□0						
0.12	0.44	0.35 – 0.5	3RV2011-0FA□0						
0.18	0.60	0.45 – 0.63	3RV2011-0GA□0						
0.18	0.60	0.55 – 0.8	3RV2011-0HA□0						
0.25	0.85	0.7 – 1	3RV2011-0JA□0						
0.37	1.10	0.9 – 1.25	3RV2011-0KA□0						
0.55	1.50	1.1 – 1.6	3RV2011-1AA□0						
0.75	1.90	1.4 – 2	3RV2011-1BA□0						
0.75	1.90	1.8 – 2.5	3RV2011-1CA□0						
1.1	2.70	2.2 – 3.2	3RV2011-1DA□0						
1.5	3.60	2.8 – 4	3RV2011-1EA□0						
1.5	3.60	3.5 – 5	3RV2011-1FA□0						
1.5	4.90	4.5 – 6.3	3RV2011-1GA□0						
3	6.50	5.5 – 8	3RV2011-1HA□0						
4	8.50	7 – 10	3RV2011-1JA□0	9	3RT2016-□BB4□	3RT2016-□AP0□			
5.5	11.5	9 – 12.5	3RV2011-1KA□0	12	3RT2017-□BB4□	3RT2017-□AP0□			
7.5	15.5	10 – 16	3RV2011-4AA□0	16	3RT2018-□BB4□	3RT2018-□AP0□			

Screw terminals: 1 Spring-loaded terminals: 2	Screw terminals: 1 Spring-loaded terminals: 2	1NO: 1 1NC: 2	Screw terminals: 1 Spring-loaded terminals: 2 24 V AC/DC: A 24 – 240 V AC/DC: W	Screw terminals: 1 Spring-loaded terminals: 2 24 V AC/DC: A 24 – 240 V AC/DC: W

*likewise available as 3RR24 with IO-Link

Fuseless assembly with solid-state switching devices

Assembly up to 7.5 kW (S00)

Motor starter protector for motor protection, soft starter with current monitoring relay (stand-alone installation)

[1] The terminal support for stand-alone assembly is needed to use a 3RR2 current monitoring relay on a 3RW30/40 soft starter. In the starting and stopping phase (generalized phase control), the current monitoring relay shall not be active. For 3RW30: Activate the 3RR2 monitoring relay via an upstream timing relay after the end of the soft start.
For 3RW40: Activate and deactivate the 3RR2 monitoring relay via the BYPASS output (ramp-up detection).

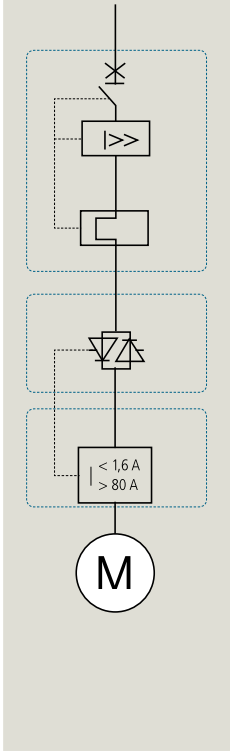
	Type	Screw terminals	Spring-loaded terminals
1	Motor starter protector	3RV2011-□□□1□	3RV2011-□□□2□
2	Link module	3RA2921-1BA00	3RA2921-2GA00
3	Soft starter	3RW301□-1□□□□	3RW301□-2□□□□
4	Terminal support stand-alone	3RU2916-3AA01	3RU2916-3AC01
5	Current monitoring relay[1]	3RR2□41-1□□□□	3RR2□41-2□□□□

Motor starter protector for motor protection, solid-state contactor with current monitoring relay (stand-alone installation)

[1] The terminal support for stand-alone assembly is needed to use a size-S00 3RR2*41 current monitoring relay with a semiconductor contact.

	Type	Screw terminals	Spring-loaded terminals
1	Motor starter protector	3RV2011-□□□1□	
2	Link module	3RA2921-1BA00	
3	Solid-state cont./solid-state rev. cont.	3RF34□□-1□□□□	
4	Terminal support stand-alone	3RU2916-3AA01	3RU2916-3AC01
5	Current monitoring relay[1]	3RR2□□-1□□□□	3RR2□41-2□□□□

Starter combinations:
Motor starter protector for motor protection, soft starter with current monitoring relay

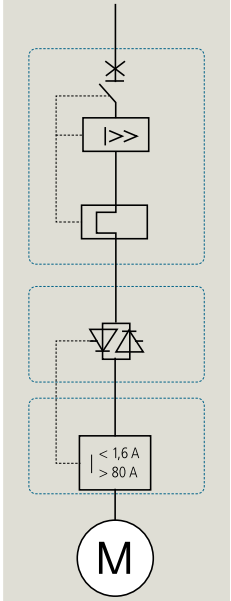


Standard three-phase motor 4-pole at 400 V AC		Motor starter protectors		Soft starters[1]			Current monitoring relays		
		Setting range for thermal overload release CLASS 10	Article No.	Rated operational current	Article No.	Article No.	Meas. range	Article No. Basic (analog adjustable)	Article No. Standard (digital adjustable)*
[kW]	[A]	[A]		[A]	24 V DC	230 V AC, 50/60 Hz	[A]		
0.04	0.16	0.11 – 0.16	3RV2011-0AA□0	3.6	3RW3013-□BB04	3RW3013-□BB14			
0.06	0.20	0.14 – 0.2	3RV2011-0BA□0						
0.06	0.20	0.18 – 0.25	3RV2011-0CA□0						
0.09	0.30	0.22 – 0.32	3RV2011-0DA□0						
0.09	0.30	0.28 – 0.4	3RV2011-0EA□0						
0.12	0.44	0.35 – 0.5	3RV2011-0FA□0						
0.18	0.60	0.45 – 0.63	3RV2011-0GA□0						
0.18	0.60	0.55 – 0.8	3RV2011-0HA□0						
0.25	0.85	0.7 – 1	3RV2011-0JA□0						
0.37	1.10	0.9 – 1.25	3RV2011-0KA□0						
0.55	1.50	1.1 – 1.6	3RV2011-1AA□0						
0.75	1.90	1.4 – 2	3RV2011-1BA□0						
0.75	1.90	1.8 – 2.5	3RV2011-1CA□0						
1.1	2.70	2.2 – 3.2	3RV2011-1DA□0						
1.5	3.60	2.8 – 4	3RV2011-1EA□0						
1.5	3.60	3.5 – 5	3RV2011-1FA□0						
2.2	4.90	4.5 – 6.3	3RV2011-1GA□0	6.5	3RW3014-□BB04	3RW3014-□BB14	1.6 – 16	3RR2141-□A□30	3RR2241-□F□30
3	6.50	5.5 – 8	3RV2011-1HA□0						
4	8.50	7 – 10	3RV2011-1JA□0	9	3RW3016-□BB04	3RW3016-□BB14			
5.5	11.5	9 – 12.5	3RV2011-1KA□0	12.5	3RW3017-□BB04	3RW3017-□BB14			
7.5	15.5	10 – 16	3RV2011-4AA□0	17.6	3RW3018-□BB04	3RW3018-□BB14			
			Screw terminals: 1 Spring-loaded terminals: 2		Screw terminals: 1 Spring-loaded terminals: 2			Screw terminals: 1 Spring-loaded terminals: 2 24 V AC/DC: A 24 – 240 V AC/DC: W	Screw terminals: 1 Spring-loaded terminals: 2 24 V AC/DC: A 24 – 240 V AC/DC: W

[1] Rated operational voltage 200 – 480 V

*likewise available as 3RR24 with IO-Link

Starter combinations: motor starter protector for motor protection, solid-state switching device and current monitoring relay



Standard three-phase motor 4-pole at 400 V AC		Motor starter protectors		Solid-state contactors[2]			Current monitoring relays		
		Setting range for thermal overload release CLASS 10	Article No.	Rated operational current	Article No.	Article No.	Meas. range	Article No. Basic (analog adjustable)	Article No. Standard (digital adjustable)*
					Control supply voltage				
[kW]	[A]	[A]		[A]	24 V DC	110 – 230 V AC, 50/60 Hz	[A]		
0.04	0.16	0.11 – 0.16	3RV2011-0AA□0	5.2	3RF3405-□BB04	3RF3405-□BB24	1.6 – 16	3RR2141-□A□30[3]	3RR2241-□F□30[3]
0.06	0.20	0.14 – 0.2	3RV2011-0BA□0						
0.06	0.20	0.18 – 0.25	3RV2011-0CA□0						
0.09	0.30	0.22 – 0.32	3RV2011-0DA□0						
0.09	0.30	0.28 – 0.4	3RV2011-0EA□0						
0.12	0.44	0.35 – 0.5	3RV2011-0FA□0						
0.18	0.60	0.45 – 0.63	3RV2011-0GA□0						
0.18	0.60	0.55 – 0.8	3RV2011-0HA□0						
0.25	0.85	0.7 – 1	3RV2011-0JA□0						
0.37	1.10	0.9 – 1.25	3RV2011-0KA□0						
0.55	1.50	1.1 – 1.6	3RV2011-1AA□0						
0.75	1.90	1.4 – 2	3RV2011-1BA□0						
0.75	1.90	1.8 – 2.5	3RV2011-1CA□0						
1.1	2.70	2.2 – 3.2	3RV2011-1DA□0						
1.5	3.60	2.8 – 4	3RV2011-1EA□0						
1.5	3.60	3.5 – 5	3RV2011-1FA□0						
2.2	4.90	4.5 – 6.3	3RV2011-1GA□0	9.2	3RF3410-□BB04[1]	3RF3410-□BB24[1]			
3	6.50	5.5 – 8	3RV2011-1HA□0						
4	8.50	7 – 10	3RV2011-1JA□0	12.5	3RF3412-□BB04[1]	3RF3412-□BB24[1]			
5.5	11.5	9 – 12.5	3RV2011-1KA□0						
7.5	15.5	10 – 16	3RV2011-4AA□0	16	3RF3416-□BB04[1]	3RF3416-□BB24[1]			

Screw terminals: 1
Spring-loaded terminals: 2

Screw terminals: 1
Spring-loaded terminals: 2

Screw terminals: 1
Spring-loaded terminals: 2
24 V AC/DC: A
24 – 240 V AC/DC: W

*likewise available as 3RR24 with IO-Link

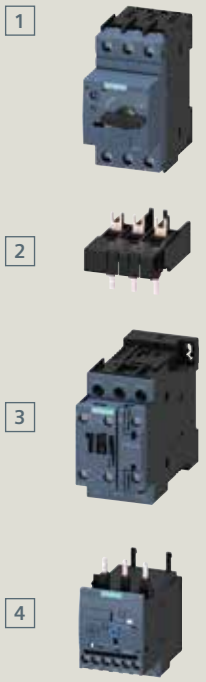
Solid-state reversing contactors[2]		
3.8	3RF3403-1BD04	3RF3403-1BD24
5.4	3RF3405-1BD04	3RF3405-1BD24
7.4	3RF3410-1BD04[1]	3RF3410-1BD24[1]

[1] Width 90 mm
[2] Rated operational voltage Ue 48 – 480 V
[3] Can be mounted directly on solid-state contactor with screw terminals using connection adapter 3RF3900-0QA88

Fuseless assembly

Assembly 18.5 kW (S0)

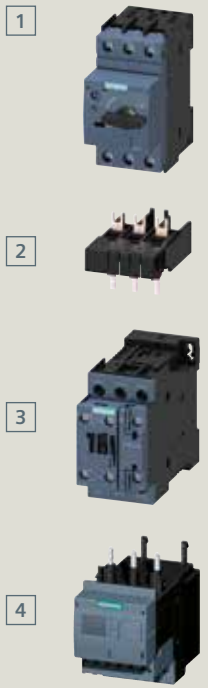
Motor starter protector for starter protection, contactor and overload relay



[1] Can only be used up to 32 A

	Type	Screw terminals	Spring-loaded terminals
1	Motor starter protector	3RV2321-□□□1□	3RV2321-□□□2□
2	Link module[1]	AC 3RA2921-1AA00 DC 3RA2921-1BA00	3RA2921-2AA00 3RA2921-2AA00
3	Contactor	3RT202□-1□□□□	3RT202□-2□□□□
4	Overload relay	3RU2126-□□B0 or 3RB3□2□-□□B0	3RU2126-□□C0 or 3RB3□2□-□□E0

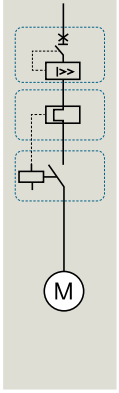
Motor starter protector for motor protection, contactor with current monitoring relay



[1] Can only be used up to 32 A

	Type	Screw terminals	Spring-loaded terminals
1	Motor starter protector	3RV2021-□□□1□	3RV2021-□□□2□
2	Link module[1]	AC 3RA2921-1AA00 DC 3RA2921-1BA00	3RA2921-2AA00 3RA2921-2AA00
3	Contactor	3RT202□-1□□□□	3RT202□-2□□□□
4	Current monitoring relay	3RR2□42-1□□□□	3RR2□42-2□□□□

Starter combinations size S0: Motor starter protector for starter protection, contactor and overload relay



Standard three-phase motor 4-pole at 400 V AC		MSPs for starter protection		Contactors (auxiliary contacts 1NO or 1NC integrated)				Overload relays			
		MSP rated current	Article No.	Rated operational current	Article No. Control supply voltage 24 V DC	Article No. 230 V AC, 50 Hz	Article No. 50/60 Hz AC/DC	Setting range	Article No. thermal overload relay CLASS 10	Setting range	Article No. electronic overload relay CLASS 10E
[kW]	[A]	[A]		[A]				[A]		[A]	
7.5	15.5	16	3RV2321-4AC□0	17	3RT2025-□BB40	3RT2025-□AP00	3RT2025-□N□30	11 – 16	3RU2126-4A□0	6 – 25	3RB3026-1Q□0
7.5	15.5	20	3RV2321-4BC□0					14 – 20	3RU2126-4B□0		
11	22	22	3RV2321-4CC□0	25	3RT2026-□BB40	3RT2026-□AP00	3RT2026-□N□30	17 – 22	3RU2126-4C□0		
11	22	25	3RV2321-4DC□0					20 – 25	3RU2126-4D□0		
15	29	28	3RV2321-4NC□0	32	3RT2027-□BB40	3RT2027-□AP00	3RT2027-□N□30	23 – 28	3RU2126-4N□0	10 – 40	3RB3026-1V□0
15	29	32	3RV2321-4EC□0					27 – 32	3RU2126-4E□0		
18.5	35	36	3RV2321-4PC10	38	3RT2028-□BB40	3RT2028-□AP00	3RT2028-□N□30	30 – 36	3RU2126-4P□0		
18.5	35	40	3RV2321-4FC10					34 – 40	3RU2126-4F□0		

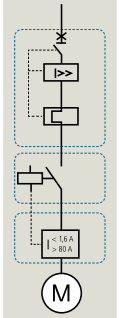
Screw terminals: 1
Spring-loaded terminals[2]: 2

Screw terminals: 1 | 21 – 28 V AC/DC: B
Spring-loaded terminals: 2 | 95 – 130 V AC/DC: F
200 – 280 V AC/DC: P

Screw terminals: B
Spring-loaded terminals: C

Screw terminals: B
Spring-loaded terminals: E

Starter combinations size S0: Motor starter protector for motor protection, contactor and current monitoring relay



Standard three-phase motor 4-pole at 400 V AC		MSPs for motor protection		Contactors (auxiliary contacts 1NO or 1NC integrated)				Current monitoring relays		
		Setting range for thermal overload release CLASS 10	Article No.	Rated operational current	Article No. Control supply voltage 24 V DC	Article No. 230 V AC, 50 Hz	Article No. 50/60 Hz AC/DC	Meas. range	Article No. Basic (analog adjustable)	Article No. Standard (digital adjustable)*
[kW]	[A]	[A]		[A]				[A]		
7.5	15.5	10 – 16	3RV2021-4AA□0	17	3RT2025-□BB40	3RT2025-□AP00	3RT2025-□N□30	4 – 40	3RR2142-□A□30	3RR2242-□F□30
7.5	15.5	13 – 20	3RV2021-4BA□0							
11	22	16 – 22	3RV2021-4CA□0	25	3RT2026-□BB40	3RT2026-□AP00	3RT2026-□N□30			
11	22	18 – 25	3RV2021-4DA□0							
15	29	23 – 28	3RV2021-4NA□0	32	3RT2027-□BB40	3RT2027-□AP00	3RT2027-□N□30			
15	29	27 – 32	3RV2021-4EA□0							
18.5	35	30 – 36	3RV2021-4PA10	38	3RT2028-□BB40	3RT2028-□AP00	3RT2028-□N□30			
18.5	35	34 – 40	3RV2021-4FA10							

Screw terminals: 1
Spring-loaded terminals[2]: 2

Screw terminals: 1 | 21 – 28 V AC/DC: B
Spring-loaded terminals: 2 | 95 – 130 V AC/DC: F
200 – 280 V AC/DC: P

Screw terminals: 1
Spring-loaded terminals: 2
24 V AC/DC: A
24 – 240 V AC/DC: W

[2] Up to 32 A

*likewise available as 3RR24 with IO-Link

Fuseless assembly

Assembly up to 18.5 kW (S0)

Motor starter protector for motor protection, 3RW30 soft starter with current monitoring relay (stand-alone installation)

[1] Only usable up to 32 A
[2] The terminal support for stand-alone assembly is needed to use a 3RR2 current monitoring relay on a 3RW30/40 soft starter. In the starting and stopping phase (generalized phase control), the current monitoring relay shall not be active.
For 3RW30: Activate the 3RR2 monitoring relay via an upstream timing relay after the end of the soft start.
For 3RW40: Activate and deactivate the 3RR2 monitoring relay via the BYPASS output (ramp-up detection).

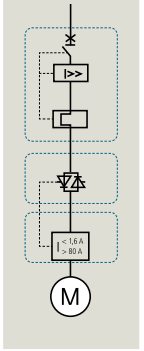
	Type	Screw terminals	Spring-loaded terminals
1	Motor starter protector	3RV2021-□□□1□	3RV2021-□□□2□
2	Link module[1]	3RA2921-1BA00	3RA2921-2GA00
3	Soft starter	3RW302□-1□□□□	3RW302□-2□□□□
4	Terminal support stand-alone	3RU2926-3AA01	3RU2926-3AC01
5	Current monitoring relay[2]	3RR2□42-1□□□□	3RR2□42-2□□□□

Motor starter protector for motor protection, 3RW40 soft starter (integrated electronic overload relay) with current monitoring relay (stand-alone installation)

[1] Only usable up to 32 A
[2] The terminal support for stand-alone assembly is needed to use a 3RR2 current monitoring relay on a 3RW30/40 soft starter. In the starting and stopping phase (generalized phase control), the current monitoring relay shall not be active.
For 3RW30: Activate the 3RR2 monitoring relay via an upstream timing relay after the end of the soft start.
For 3RW40: Activate and deactivate the 3RR2 monitoring relay via the BYPASS output (ramp-up detection).

	Type	Screw terminals	Spring-loaded terminals
1	Motor starter protector	3RV2021-□□□1□	3RV2021-□□□2□
2	Link module[1]	3RA2921-1BA00	3RA2921-2GA00
3	Soft starter	3RW402□-1□□□□	3RW402□-2□□□□
4	Terminal support stand-alone	3RU2926-3AA01	3RU2926-3AC01
5	Current monitoring relay[2]	3RR2□42-1□□□□	3RR2□42-2□□□□

Starter combinations in size S0: Motor starter protector for motor protection, 3RW30 soft starter and current monitoring relay



Standard three-phase motor 4-pole at 400 V		MSPs for motor protection		Soft starters[1] without overload protection			Current monitoring relays		
		Setting range for thermal overload release CLASS 10	Article No.	Rated operational current	Article No. Control supply voltage	Article No. Control supply voltage	Meas. range	Article No. Basic (analog adjustable)	Article No. Standard (digital adjustable)*
[kW]	[A]	[A]		[A]	24 V AC/DC	110 – 230 V AC/DC	[A]		
11	22	16 – 22	3RV2021-4CA ☐0	25	3RW3026-☐BB04	3RW3026-☐BB14	4 – 40	3RR2142-☐A☐30	3RR2242-☐F☐30
11	22	18 – 25	3RV2021-4DA ☐0						
15	29	23 – 28	3RV2021-4NA ☐0	32	3RW3027-☐BB04	3RW3027-☐BB14			
15	29	27 – 32	3RV2021-4EA ☐0						
18.5	35	30 – 36	3RV2021-4PA10	38	3RW3028-☐BB04	3RW3028-☐BB14			
18.5	35	34 – 40	3RV2021-4FA10						

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

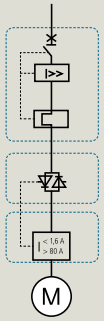
Screw terminals: 1
Spring-loaded terminals: 2

Screw terminals: 1
Spring-loaded terminals: 2
24 V AC/DC: A
24 – 240 V AC/DC: W

[1] Rated operational voltage 200 – 480 V

*likewise available as 3RR24 with IO-Link

Starter combinations in size S0: Motor starter protector for starter protection, 3RW40 soft starter and current monitoring relay



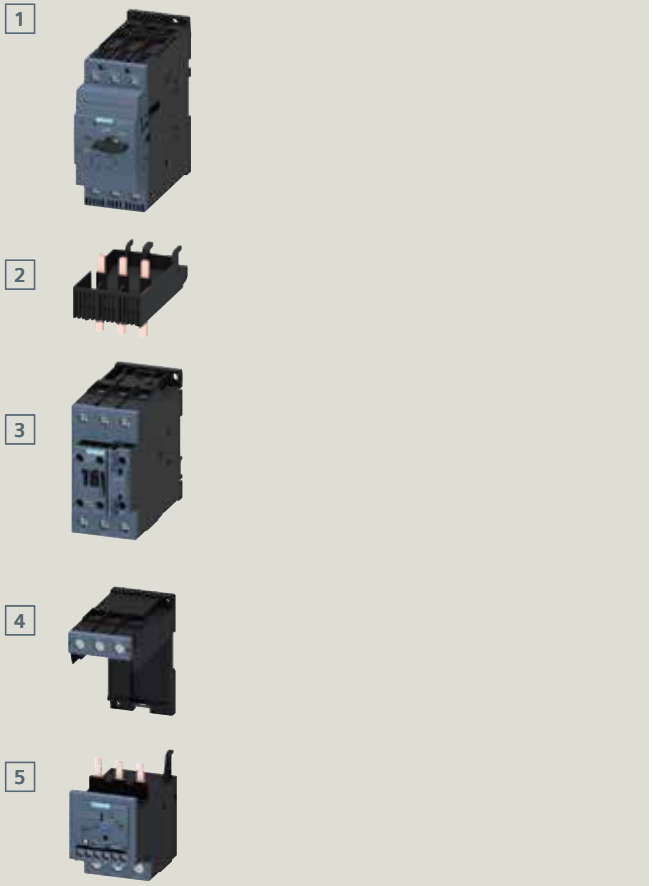
Standard three-phase motor 4-pole at 400 V AC		MSPs for motor protection		Soft starters[1] with overload protection			Current monitoring relays		
		Setting range for thermal overload release CLASS 10	Article No.	Rated operational current	Article No.	Article No.	Meas. range	Article No. Basic (analog adjustable)	Article No. Standard (digital adjustable)
					Control supply voltage				
[kW]	[A]	[A]		[A]	24 V AC/DC	110 – 230 V AC/DC	[A]		
5.5	11.5	9 – 12.5	3RV2021-1KA □0	12.5	3RW4024-□BB04	3RW4024-□BB14	4 – 40	3RR2142-□A□30	3RR2242-□F□30
7.5	15.5	10 –16	3RV2021-4AA □0	25	3RW4026-□BB04	3RW4026-□BB14			
7.5	15.5	13 – 20	3RV2021-4BA □0						
11	22	16 – 22	3RV2021-4CA □0						
11	22	18 – 25	3RV2021-4DA □0						
15	29	23 – 28	3RV2021-4NA □0	32	3RW4027-□BB04	3RW4027-□BB14			
15	29	27 – 32	3RV2021-4EA □0						
18.5	35	30 – 36	3RV2021-4PA10	38	3RW4028-□BB04	3RW4028-□BB14			
18.5	35	34 – 40	3RV2021-4FA10						
			Screw terminals: 1 Spring-loaded terminals up to 32 A 2			Screw terminals: 1 Spring-loaded terminals: 2		Screw terminals: 1 Spring-loaded terminals: 2	24 V AC/DC: A 24 – 240 V AC/DC: W

[1] Rated operational voltage 200 – 480 V

Fuseless assembly

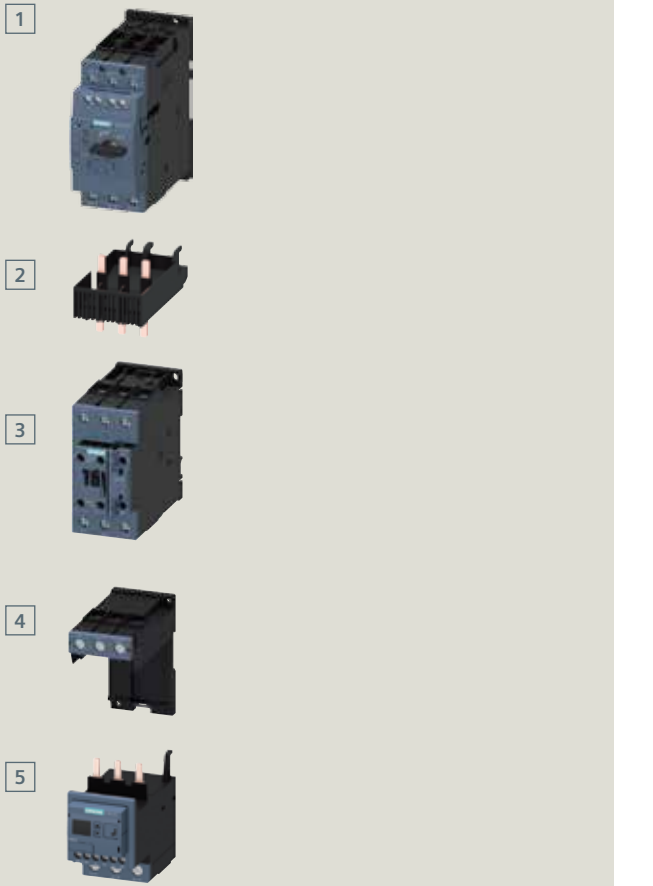
Size S2 up to 37 kW

Motor starter protector for starter protection, contactor and overload relay



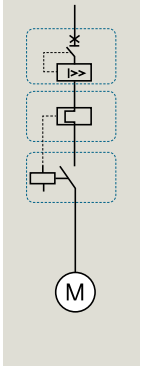
	Type	Article number
1	Motor starter protector	3RV233□-□□□1□
2	Link module (can only be used up to 65 A)	3RA2931-1AA00
3	Contactor	3RT203□-□□□□□
4	Terminal support for stand-alone installation	3RU2936-3AA01
5	Overload relay	3RU2136-□□B0 or 3RB3□3□-□□B0

Motor starter protector for motor protection, contactor with current monitoring relay



	Type	Article number
1	Motor starter protector	3RV203□-□□□1□
2	Link module (can only be used up to 65 A)	3RA2931-1AA00
3	Contactor	3RT203□-□□□□□
4	Terminal support for stand-alone installation	3RU2936-3AA01
5	Current monitoring relay	3RR2□43-1□□□

Starter combinations in size S2: Motor starter protector for starter protection, contactor and overload relay



Standard three-phase motor 4-pole at 400 V AC		MSPs for starter protection		Contactors (auxiliary contacts 1NO or 1NC integrated)			Overload relays			
				Rated operational current	Article No.	Article No.	Setting range	Article No. thermal overload relay,	Setting range	Article No. electronic overload relay
[kW]	[A]	Rated breaker current [A]	Article No.	[A]	230 V AC, 50 Hz	50/60 Hz AC/DC	[A]	CLASS 10	[A]	CLASS 10E[1]
18.5	35	36	3RV233☐-4PC10	40	3RT2035-☐AP00	3RT2035-☐N☐30	22 – 32	3RU2136-4EB0	20 – 80	3RB3036-1W☐☐
		40	3RV233☐-4UC10				28 – 40	3RU2136-4FB0		
22	41	45	3RV233☐-4VC10	50	3RT2036-☐AP00	3RT2036-☐N☐30	36 – 45	3RU2136-4GB0		
		52	3RV233☐-4WC10				40 – 50	3RU2136-4HB0		
30	55	59	3RV233☐-4XC10	65	3RT2037-☐AP00	3RT2037-☐N☐30	47 – 57	3RU2136-4QB0		
		65	3RV233☐-4JC10				54 – 65	3RU2136-4JB0		
37	66	73	3RV233☐-4KC10	80	3RT2038-☐AP00	3RT2038-☐N☐30	62 – 73	3RU2136-4KB0		
		80 [2]	3RV233☐-4RC10				70 – 80	3RU2136-4RB0		

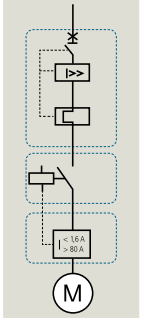
Standard switching capacity 65 kA at 400 V: 1
Increased switching capacity 100 kA at 400 V: 2

Screw terminals: 1
Spring-loaded terminals in auxiliary circuit: 3
20 – 33 V AC/DC: B
83 – 155 V AC/DC: F
175 – 280 V AC/DC: P

Contactor mounting: B 0
Straight-thr. transf.: X 1
W 1

[1] As 3RB3133 also available with another CLASS and other functions

Starter combinations in size S2: Motor starter protector for motor protection, contactor with current monitoring relay



Standard three-phase motor 4-pole at 400 V AC		MSPs for motor protection		Contactors (auxiliary contacts 1NO or 1NC integrated)			Current monitoring relays		
		Setting range for thermal overload release CLASS 10	Article No.	Rated operational current	Article No.	Article No.	Meas. range	Article No. Basic (analog adjustable)	Article No. Standard (digital adjustable)*
[kW]	[A]	[A]		[A]	230 V AC, 50 Hz	50/60 Hz AC/DC	[A]		
18.5	35	28 – 36	3RV203☐-4PA10	40	3RT2035-☐AP00	3RT2035-☐N☐30	8 – 80	3RR2143-☐A☐30	3RR2243-☐F☐30
		32 – 40	3RV203☐-4UA10						
22	41	35 – 45	3RV203☐-4VA10	50	3RT2036-☐AP00	3RT2036-☐N☐30			
		42 – 52	3RV203☐-4WA10						
30	55	49 – 59	3RV203☐-4XA10	65	3RT2037-☐AP00	3RT2037-☐N☐30			
		54 – 65	3RV203☐-4JA10						
37	66	62 – 73	3RV203☐-4KA10	80	3RT2038-☐AP00	3RT2038-☐N☐30			
		70 – 80[2)]	3RV203☐-4RA10						

Standard switching capacity 65 kA at 400 V: 1
Increased switching capacity 100 kA at 400 V: 2

Screw terminals: 1
Spring-loaded terminals in auxiliary circuit: 3
20 – 33 V AC/DC: B
83 – 155 V AC/DC: F
175 – 280 V AC/DC: P

Screw terminals: 1
Spring-loaded terminals in auxiliary circuit: 3
24 V AC/DC: A
24 – 240 V AC/DC: W

*likewise available as 3RR24 with IO-Link

[2)] Suitable for use with IE3 motors up to a starting current of 720 A. For higher starting currents we recommend using 3RV1 motor starter protectors size S3.

Fuseless assembly

Size S2 up to 37 kW

Motor starter protector for motor protection, 3RW30 soft starter without overload protection and current monitoring relay (stand-alone installation)

[1] Can only be used in combination with 3RA2932-1CA00 standard mounting rail adapter (specially for soft starters)

[2] The terminal support for stand-alone assembly is needed to use a 3RR2 current monitoring relay on a 3RW30/40 soft starter. In the starting and stopping phase (generalized phase control), the current monitoring relay shall not be active.
For 3RW30: Activate the 3RR2 monitoring relay via an upstream timing relay after the end of the soft start

	Type	Screw terminals
1	Motor starter protector	3RV203□-□□□1□
2	Link module (can only be used up to 65 A)[1]	3RA2931-1AA00
3	Soft starter	3RW303□-1□□□□
4	Terminal support for stand-alone installation	3RU2936-3AA01
5	Current monitoring relay[2]	3RR2□43-3□□□□

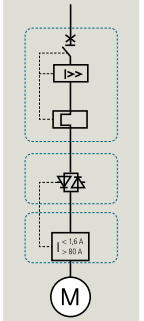
Motor starter protector for motor protection, 3RW40 soft starter with overload protection and current monitoring relay (stand-alone installation)

[1] Can only be used in combination with 3RA2932-1CA00 standard mounting rail adapter (specially for soft starters)

[2] The terminal support for stand-alone assembly is needed to use a 3RR2 current monitoring relay on a 3RW30/40 soft starter. In the starting and stopping phase (generalized phase control), the current monitoring relay shall not be active.
For 3RW40: Activate and deactivate the 3RR2 monitoring relay via the BYPASS output (ramp-up detection).

	Type	Screw terminals
1	Motor starter protector	3RV203□-□□□1□
2	Link module (can only be used up to 65 A)[1]	3RA2931-1AA00
3	Soft starter	3RW403□-1□□□□
4	Terminal support for stand-alone installation	3RU2936-3AA01
5	Current monitoring relay[2]	3RR2□43-3□□□□

Starter combinations in size S2: Motor starter protector for motor protection, 3RW30 soft starter without overload protection but with current monitoring relay



Standard three-phase motor 4-pole at 400 V AC		MSPs for motor protection		Soft starter without overload prot.		Current monitoring relays		
		Setting range for thermal overload release CLASS 10	Article No.	Rated operational current	Article No.	Meas. range	Article No. Basic (analog adjustable)	Article No. Standard (digital adjustable)
[kW]	[A]	[A]		[A]		[A]		
18.5	35	28 – 36	3RV203☐-4PA10	45	3RW3036-1BB☐4	8 – 80	3RR2143-☐A☐30	3RR2243-☐F☐30
		32 – 40	3RV203☐-4UA10					
22	41	35 – 45	3RV203☐-4VA10					
		42 – 52	3RV203☐-4WA10					
30	55	49 – 59	3RV203☐-4XA10	63	3RW3037-1BB☐4			
		54 – 65	3RV203☐-4JA10					
37	66	62 – 73	3RV203☐-4KA10	72	3RW3038-1BB☐4			
		70 – 80	3RV203☐-4RA10					

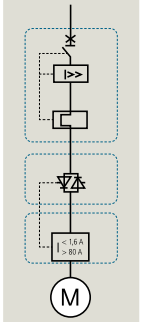
Standard switching capacity 65 kA at 400 V: 1
Increased switching capacity 100 kA at 400 V: 2

24 V AC/DC: 0
110 – 230 V AC/DC: 1

Screw terminals: 1
Spring-loaded terminals in auxiliary circuit: 3

24 V AC/DC: A
110 – 230 V AC/DC: W

Starter combinations in size S2: Motor starter protector for motor protection, 3RW40 soft starter with overload protection and current monitoring relay



Standard three-phase motor 4-pole at 400 V		MSPs for motor protection		Soft starter with overload prot.		Current monitoring relays		
		Setting range for thermal overload release CLASS 10	Article No.	Rated operational current	Article No.	Meas. range	Article No. Basic (analog adjustable)	Article No. Standard (digital adjustable)*
[kW]	[A]	[A]		[A]		[A]		
18.5	35	28 – 36	3RV203☐-4PA10	45	3RW4036-1BB☐4	8 – 80	3RR2143-☐A☐30	3RR2243-☐F☐30
22	41	32 – 40	3RV203☐-4UA10					
30	55	35 – 45	3RV203☐-4VA10					
		42 – 52	3RV203☐-4WA10					
37	66	49 – 59	3RV203☐-4XA10	63	3RW4037-1BB☐4			
		54 – 65	3RV203☐-4JA10					
		62 – 73	3RV203☐-4KA10	72	3RW4038-1BB☐4			
		70 – 80	3RV203☐-4RA10					

Standard switching capacity 65 kA at 400 V: 1
Increased switching capacity 100 kA at 400 V: 2

24 V AC/DC: 0
110 – 230 V AC/DC: 1

Screw terminals: 1
Spring-loaded terminals in auxiliary circuit: 3

24 V AC/DC: A
110 – 230 V AC/DC: W

*likewise available as 3RR24 with IO-Link

Fuseless assembly

Size S3 up to 55 kW

Motor starter protector for starter protection, contactor with overload relay

	Type	Screw terminals
1	Motor starter protector	3RV234□-□□□1□
2	Link module[1)]	3RA1941-1AA00
3	Contactor	3RT204□-□□□□□
4	Terminal support for stand-alone installation	3RU2946-3AA01
5	Overload relay	3RU2146-□□B0 or 3RB3□4□-□□B0

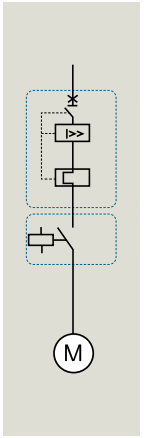
[1)] Installation with link module only allowable on standard mounting rail adapter.

Motor starter protectors for motor protection, contactor and overload relay

	Type	Screw terminals
1	Motor starter protector	3RV204□-□□□1□
2	Link module[1)]	3RA1941-1AA00
3	Contactor	3RT204□-□□□□□
4	Terminal support for stand-alone installation	3RU2946-3AA01
5	Overload relay	3RU2146-□□B0 or 3RB3□4□-□□B0

[1)] Installation with link module only allowable on standard mounting rail adapter.

Starter combinations in size S3: Motor starter protector for motor protection and contactor

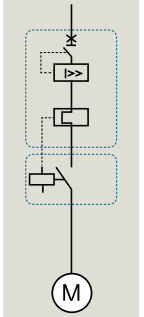


Standard three-phase motor 4-pole at 400 V AC		Motor starter protector		Contactors		
		Setting range for thermal overload release CLASS 10	Article No.	Rated operational current	Article No.	Article No.
[kW]	[A]	[A]		[A]	230 V AC, 50 Hz	50/60 Hz AC/DC
37	66	36 – 50	3RV204□-4HA10	80	3RT2045-□AP00	3RT2045-□N□30
		45 – 63	3RV204□-4JA10			
		57 – 75	3RV204□-4KA10			
45	80	65 – 84	3RV204□-4RA10	95	3RT2046-□AP00	3RT2046-□N□30
55	97	75 – 93	3RV204□-4YA10	110	3RT2047-□AP00	3RT2047-□N□30
		80 – 100	3RV204□-4MA10			
		3 VA				

Standard switching capacity 65 kA at 400 V: 1
Increased switching capacity 100 kA at 400 V: 2

Screw terminals: 1
Spring-loaded terminals in auxiliary circuit: 3
20 – 33 V AC/DC: B
83 – 155 V AC/DC: F
175 – 280 V AC/DC: P

Starter combinations in size S3: Motor starter protector for starter protection, contactor with overload relay



Standard three-phase motor 4-pole at 400 V AC		Motor starter protector		Contactors			Overload relay			
		MSP rated current	Article No.	Rated operational current	Article No.	Article No.	Setting range CLASS 10	Article No. thermal overload relay	Setting range CLASS 10E	Article No. electrical overload relay
[kW]	[A]	[A]		[A]	230 V AC, 50 Hz	50/60 Hz AC/DC	[A]		[A]	
37	66	50	3RV234□-4HC10	80	3RT2045-□AP00	3RT2045-□N□30	36 – 50	3RU2146-4HB0	32 – 115	3RB3046-1X□□
		63	3RV234□-4JC10				45 – 63	3RU2146-4JB0		
		75	3RV234□-4KC10				57 – 75	3RU2146-4KB0		
45	80	84	3RV234□-4RC10	95	3RT2046-□AP00	3RT2046-□N□30	70 – 90	3RU2146-4LB0		
55	97	93	3RV234□-4YC10	110	3RT2047-□AP00	3RT2047-□N□30				
		100	3RV234□-4MC10				80 – 100	3RU2146-4MB0		
		3 VA								

Standard switching capacity 65 kA at 400 V: 1
Increased switching capacity 100 kA at 400 V: 2

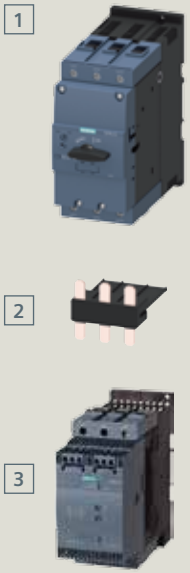
Screw terminals: 1
Spring-loaded terminals in auxiliary circuit: 3
20 – 33 V AC/DC: B
83 – 155 V AC/DC: F
175 – 280 V AC/DC: P

Screw terminals in auxiliary circuit B
Spring-loaded terminals in auxiliary circuit D
Straight-through transformer, screw terminals in auxiliary circuit W
Straight-through transformer, spring-loaded terminals in auxiliary circuit X
For mounting onto contactor main circuit 0
Stand-alone installation 1

Fuseless assembly

Size S3 up to 55 kW

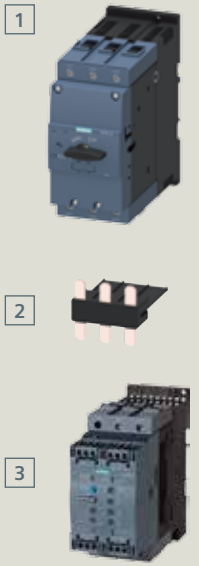
Motor starter protector for motor protection, 3RW30 soft starter without overload protection



	Type	Screw terminals
1	Motor starter protector	3RV204□-□□□1□
2	Link module[1)]	3RA1941-1AA00
3	Soft starter	3RW304□-1□□□□

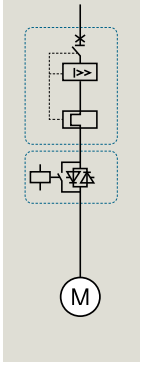
[1)] Installation with link module only allowable on mounting plate.

Motor starter protector for motor protection, 3RW40 soft starter with overload protection



	Type	Screw terminals
1	Motor starter protector	3RV204□-□□□1□
2	Link module[1)]	3RA1941-1AA00
3	Soft starter	3RW404□-1□□□□

Starter combinations in size S3: Motor starter protector for motor protection and 3RW30 soft starter without overload protection

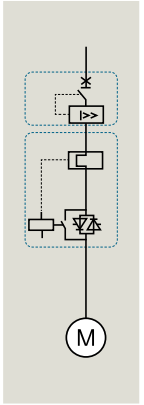


Standard three-phase motor 4-pole at 400 V AC		Motor starter protector		Soft starter	
		Setting range for thermal overload release CLASS 10	Article No.	Rated operational current	Article No.
[kW]	[A]	[A]		[A]	
37	66	36 – 50	3RV204☐-4HA10	80	3RW3046-1BB☐4
		45 – 63	3RV204☐-4JA10		
45	80	57 – 75	3RV204☐-4KA10		
		65 – 84	3RV204☐-4RA10		
55	97	75 – 93	3RV204☐-4YA10	106	3RW3047-1BB☐4
		80 – 100	3RV204☐-4MA10		
		3 VA			

Standard switching capacity 65 kA at 400 V: 1
Increased switching capacity 100 kA at 400V: 2

24 V AC/DC: 0
110 – 230 V AC/DC: 1

Starter combinations in size S3: Motor starter protector for motor protection and 3RW40 soft starter with overload protection



Standard three-phase motor 4-pole at 400 V AC		Motor starter protector		Soft starter	
		Setting range for thermal overload release CLASS 10	Article No.	Rated operational current	Article No.
[kW]	[A]	[A]		[A]	
37	66	36 – 50	3RV204☐-4HA10	80	3RW4046-1BB☐4
		45 – 63	3RV204☐-4JA10		
45	80	57 – 75	3RV204☐-4KA10		
		65 – 84	3RV204☐-4RA10		
55	97	75 – 93	3RV204☐-4YA10	106	3RW4047-1BB☐4
		80 – 100	3RV204☐-4MA10		
		3 VA			

Standard switching capacity 65 kA at 400 V: 1
Increased switching capacity 100 kA at 400 V: 2

24 V AC/DC: 0
110 – 230 V AC/DC: 1

Selection and ordering data for fused feeders of sizes S6, S10, S12

Size S6

Standard three-phase motor 4-pole at 400 V AC		Contactors				Overload relays			Soft starters		
		Rated operational current	Solenoid-operated mechanism	Control supply voltage	Article No. contactors	Article No. vacuum contactors	Setting range	Article No. electronic overload relay CLASS 10	Version	Rated operational current	Control supply voltage	Article No.
[kW]	[A]	[A]		[V AC/DC]			[A]			[A]		
55	97	115	**Conventional**	220 – 240	**3RT1054-1AP36**	–						
			Electronic									
			– for 24 V DC PLC output	200 – 277	**3RT1054-1NP36**	–						
			– for 24 V DC PLC output, w. RLT[1]	200 – 277	**3RT1054-1PP35**	–						
75	132	150	**Conventional**	220 – 240	**3RT1055-6AP36**	–				134	230 V AC	**3RW4055-6BB44**
			Electronic				50 – 200	**3RB2056-1FW2**[2]	w. str.-through transf.			
			– for 24 V DC PLC output	200 – 277	**3RT1055-6NP36**	–	50 – 200	**3RB2056-1FC2**[2]	w. busbar connection	134	115 V AC	**3RW4055-6BB34**
			– for 24 V DC PLC output, w. RLT[1]	200 – 277	**3RT1055-6PP35**	–						
90	160	185	**Conventional**	220 – 240	**3RT1056-6AP36**					162	230 V AC	**3RW4056-6BB44**
			Electronic			–						
			– for 24 V DC PLC output	200 – 277	**3RT1056-6NP36**	–				162	115 V AC	**3RW4056-6BB34**
			– for 24 V DC PLC output, w. RLT[1]	200 – 277	**3RT1056-6PP35**	–						

[1] RLT: remaining lifetime
[2] As 3RB2143 also available with another CLASS and other functions

Selection and ordering data for fused feeders of sizes S6, S10, S12

Size S10

Standard three-phase motor 4-pole at 400 V AC		Contactors					Overload relays			Soft starters		
		Rated operational current	Solenoid-operated mechanism	Control supply voltage	Article No. contactors	Article No. vacuum contactors	Setting range	Article No. electronic overload relay CLASS 10	Version	Rated operational current	Control supply voltage	Article No.
[kW]	[A]	[A]		[V AC/DC]			[A]			[A]		
110	195	225	**Conventional**	220 – 240	**3RT1064-6AP36**	**3RT1264-6AP36**	55 – 250	**3RB2066-1GC2**[2]	with busbar connection			
			Electronic									
			– for 24 V DC PLC output	200 – 277	**3RT1064-6NP36**	**3RT1264-6NP36**						
			– for 24 V DC PLC output, w. RLT[1]	200 – 277	**3RT1064-6PP35**	**–**						
132	230	265	**Conventional**	220 – 240	**3RT1065-6AP36**	**3RT1265-6AP36**	160 – 630	**3RB2066-1MC2**[2]	with busbar connection	230	230 V AC	**3RW4073-6BB44**
			Electronic							230	115 V AC	**3RW4073-6BB34**
			– for 24 V DC PLC output	200 – 277	**3RT1065-6NP36**	**3RT1265-6NP36**						
			– for 24 V DC PLC output, w. RLT[1]	200 – 277	**3RT1065-6PP35**	**–**						
160	280	300	**Conventional**	220 – 240	**3RT1066-6AP36**	**3RT1266-6AP36**				280	230 V AC	**3RW4074-6BB44**
			Electronic							280	115 V AC	**3RW4074-6BB34**
			– for 24 V DC PLC output	200 – 277	**3RT1066-6NP36**	**3RT1266-6NP36**						
			– for 24 V DC PLC output, w. RLT[1]	200 – 277	**3RT1066-6PP35**	**–**						

[1] RLT: remaining lifetime
[2] As 3RB2163 also available with another CLASS and other functions

Selection and ordering data for fused feeders of sizes S6, S10, S12

Size S12

Standard three-phase motor 4-pole at 400 V AC		Contactors					Overload relays[1]			Soft starters		
		Rated operational current	Solenoid-operated mechanism	Control supply voltage	Article No. contactors	Article No. vacuum contactors	Setting range	Article No. electronic overload relay CLASS 10	Version	Rated operational current	Control supply voltage	Article No.
[kW]	[A]	[A]		[V AC/DC]			[A]			[A]		
200	350	400	**Conventional**	220 – 240	**3RT1075-6AP36**	**3RT1275-6AP36**	160 – 630	**3RB2066-1MC2**[3]	with busbar connection	356	230 V AC	**3RW4075-6BB44**
			Electronic							356	115 V AC	**3RW4075-6BB34**
			– for 24 V DC PLC output	200 – 277	**3RT1075-6NP36**	**3RT1275-6NP36**						
			– for 24 V DC PLC output, w. RLT[2]	200 – 277	**3RT1075-6PP35**	**–**						
250	430	500	**Conventional**	220 – 240	**3RT1076-6AP36**	**3RT1276-6AP36**				432	230 V AC	**3RW4076-6BB44**
			Electronic							432	115 V AC	**3RW4076-6BB34**
			– for 24 V DC PLC output	200 – 277	**3RT1076-6NP36**	**3RT1276-6NP36**						
			– for 24 V DC PLC output, w. RLT[2]	200 – 277	**3RT1076-6PP35**	**–**						

For applications over 100 A, SIRIUS contactors can be combined with SENTRON 3VL circuit breakers. For more detailed information, please refer to the configuring aid "Configuring SIRIUS load feeders in fuseless design."

[1] When using trip CLASS 20, refer to the configuration aid "Configuring SIRIUS fuseless load feeders," and to the catalog
[2] RLT: remaining lifetime
[3] As 3RB2163 also available with another CLASS and other functions

SENTRON 3V circuit breakers are suitable for fuseless short-circuit and overload protection of soft starters from size S6 upward. For more detailed information, please refer to the catalog.

Fuseless load feeders up to 15 kW

Standard three-phase motor 4-pole at 400 V AC		3RA21 direct-on-line starters		3RA61 compact starters		SIRIUS 3RM1 motor starters	
		Setting range for thermal overload release	Type of coordination "2" at Iq = 150 kA at 400 V	Setting range for thermal overload release		Setting range for thermal overload release	
[kW]	[A]	[A]		[A]		[A]	
0.06	0.20	0.14 – 0.2	3RA2110-0B ☐15-1 ☐☐☐ S00	0.1 – 0.4	3RA6120-☐A☐3☐	0.1 – 0.5	3RM1☐01☐AA☐4
0.06	0.20	0.18 – 0.25	3RA2110-0C ☐15-1 ☐☐☐ S00				
0.09	0.30	0.22 – 0.32	3RA2110-0D ☐15-1 ☐☐☐ S00				
0.09	0.30	0.28 – 0.4	3RA2110-0E ☐15-1 ☐☐☐ S00				
0.12	0.44	0.35 – 0.5	3RA2110-0F ☐15-1 ☐☐☐ S00	0.32 – 1.25	3RA6120-☐B☐3☐	0.4 – 2.0	3RM1☐02☐AA☐4
0.18	0.60	0.45 – 0.63	3RA2110-0G ☐15-1 ☐☐☐ S00				
0.18	0.60	0.55 – 0.8	3RA2110-0H ☐15-1 ☐☐☐ S00				
0.25	0.85	0.7 – 1	3RA2110-0J ☐15-1 ☐☐☐ S00				
0.37	1.10	0.9 – 1.25	3RA2110-0K ☐15-1 ☐☐☐ S00				
0.55	1.50	1.1 – 1.6	3RA2110-1A ☐15-1 ☐☐☐ S00	1 – 4	3RA6120-☐C☐3☐	1.6 – 7.0 (10 A)*	3RM1☐07☐AA☐4
0.75	1.90	1.4 – 2	3RA2110-1B ☐15-1 ☐☐☐ S00				
0.75	1.90	1.8 – 2.5	3RA2110-1C ☐15-1 ☐☐☐ S00				
1.1	2.07	2.2 – 3.2	3RA2110-1D ☐15-1 ☐☐☐ S00				
1.5	3.60	2.8 – 4	3RA2110-1E ☐15-1 ☐☐☐ S00				
1.5	3.60	3.5 – 5	3RA2120-1F ☐24-0 ☐☐☐ S0	3 – 12	3RA6120-☐D☐3☐		
2.2	4.90	4.5 – 6.3	3RA2120-1G ☐24-0 ☐☐☐ S0				
3	6.50	5.5 – 8	3RA2120-1H ☐24-0 ☐☐☐ S0				
4	8.50	7 – 10	3RA2120-1J ☐24-0 ☐☐☐ S0				
5.5	11.5	9 – 12.5	3RA2120-1K ☐24-0 ☐☐☐ S0				
7.5	15.5	10 – 16	3RA2120-4A ☐26-0 ☐☐☐ S0	8 – 32	3RA6120-☐E☐3☐		
7.5	15.5	13 – 20	3RA2120-4B ☐27-0 ☐☐☐ S0				
11	22	16 – 22	3RA2120-4C ☐27-0 ☐☐☐ S0				
11	22	18 – 25	3RA2120-4D ☐27-0 ☐☐☐ S0				
15	29	23 – 28	3RA2120-4N ☐27-0 ☐☐☐ S0				
15	29	27 – 32	3RA2120-4E ☐27-0 ☐☐☐ S0				

Screw terminals (standard rail mounting): A
Spring-loaded terminals (standard rail mounting): E
Screw terminals (busbar adapter): D
Spring-loaded terminals (busbar adapter): H
24 V DC: B B 4
230 V AC: A P 0

Without terminals: 0 0
With screw terminals: 1 2
With spring-loaded terminals: 2 2

24 V AC/DC: B
110 – 240 V AC/DC: P

Direct-on-line starter 0
Failsafe direct-on-line starter 1

Screw terminals: 1
Spring-loaded terminals: 2
Mixed connection method: 3

24 V DC Us 0
110 – 230 V AC; 110 V DC Us 1

*Operation of resistive loads with maximum 10 A

Note: The 3RM1 motor starters do not have integral short-circuit protection. They can be used very effectively in combination with SIRIUS motor starter protectors in group assemblies, for example.

Fuseless load feeders up to 15 kW

Standard three-phase motor 4-pole at 400 V AC		3RA22 reversing starters		3RA62 compact starters		SIRIUS 3RM1 motor starters	
		Setting range for thermal overload release	Type of coordination "2" at Iq = 150 kA at 400 V	Setting range for thermal overload release		Setting range for thermal overload release	
[kW]	[A]	[A]		[A]		[A]	
0.06	0.20	0.14 – 0.2	**3RA2210-0B ☐15-2 ☐☐☐ S00**	0.1 – 0.4	**3RA6250-☐A☐3☐**	0.1 – 0.5	**3RM1☐01☐AA☐4**
0.06	0.20	0.18 – 0.25	**3RA2210-0C ☐15-2 ☐☐☐ S00**				
0.09	0.30	0.22 – 0.32	**3RA2210-0D ☐15-2 ☐☐☐ S00**				
0.09	0.30	0.28 – 0.4	**3RA2210-0E ☐15-2 ☐☐☐ S00**				
0.12	0.44	0.35 – 0.5	**3RA2210-0F ☐15-2 ☐☐☐ S00**	0.32 – 1.25	**3RA6250-☐B☐3☐**	0.4 – 2.0	**3RM1☐02☐AA☐4**
0.18	0.60	0.45 – 0.63	**3RA2210-0G ☐15-2 ☐☐☐ S00**				
0.18	0.60	0.55 – 0.8	**3RA2210-0H ☐15-2 ☐☐☐ S00**				
0.25	0.85	0.7 – 1	**3RA2210-0J ☐15-2 ☐☐☐ S00**				
0.37	1.10	0.9 – 1.25	**3RA2210-0K ☐15-2 ☐☐☐ S00**				
0.55	1.50	1.1 – 1.6	**3RA2210-1A ☐15-2 ☐☐☐ S00**	1 – 4	**3RA6250-☐C☐3☐**	1.6 – 7.0 (10 A)*	**3RM1☐07☐AA☐4**
0.75	1.90	1.4 – 2	**3RA2210-1B ☐15-2 ☐☐☐ S00**				
0.75	1.90	1.8 – 2.5	**3RA2210-1C ☐15-2 ☐☐☐ S00**				
1.1	2.70	2.2 – 3.2	**3RA2210-1D ☐15-2 ☐☐☐ S00**				
1.5	3.60	2,8 – 4	**3RA2210-1E ☐15-2 ☐☐☐ S00**				
1.5	3.60	3.5 – 5	**3RA2220-1F ☐24-0 ☐☐☐ S0**	3 – 12	**3RA6250-☐D☐3☐**		
2.2	4.90	4.5 – 6.3	**3RA2220-1G ☐24-0 ☐☐☐ S0**				
3	6.50	5.5 – 8	**3RA2220-1H ☐24-0 ☐☐☐ S0**				
4	8.50	7 – 10	**3RA2220-1J ☐24-0 ☐☐☐ S0**				
5.5	11.5	9 – 12.5	**3RA2220-1K ☐24-0 ☐☐☐ S0**				
7.5	15.5	10 – 16	**3RA2220-4A ☐26-0 ☐☐☐ S0**	8 – 32	**3RA6250-☐E☐3☐**		
7.5	15.5	13 – 20	**3RA2220-4B ☐27-0 ☐☐☐ S0**				
11	22	16 – 22	**3RA2220-4C ☐27-0 ☐☐☐ S0**				
11	22	18 – 25	**3RA2220-4D ☐27-0 ☐☐☐ S0**				
15	29	23 – 28	**3RA2220-4N ☐27-0 ☐☐☐ S0**				
15	29	27 – 32	**3RA2220-4E ☐27-0 ☐☐☐ S0**				

Screw terminals (standard rail mounting) S00: A
Screw terminals (standard rail mounting) S0: B
Spring-loaded terminals (standard rail mounting) S00: E
Spring-loaded terminals (standard rail mounting) S0: F
Screw terminals (busbar adapter): D
Spring-loaded terminals (busbar adapter): H
24 V DC: B B 4
230 V AC: A P 0

Without terminals: 0 — 0
With screw terminals: 1 — 2
With spring-loaded terminals: 2 — 2
24 V AC/DC: B
110 – 240 V AC/DC: P

Direct-on-line starter 2
Failsafe direct-on-line starter 3

Screw terminals: 1
Spring-loaded terminals: 2
Mixed connection method: 3

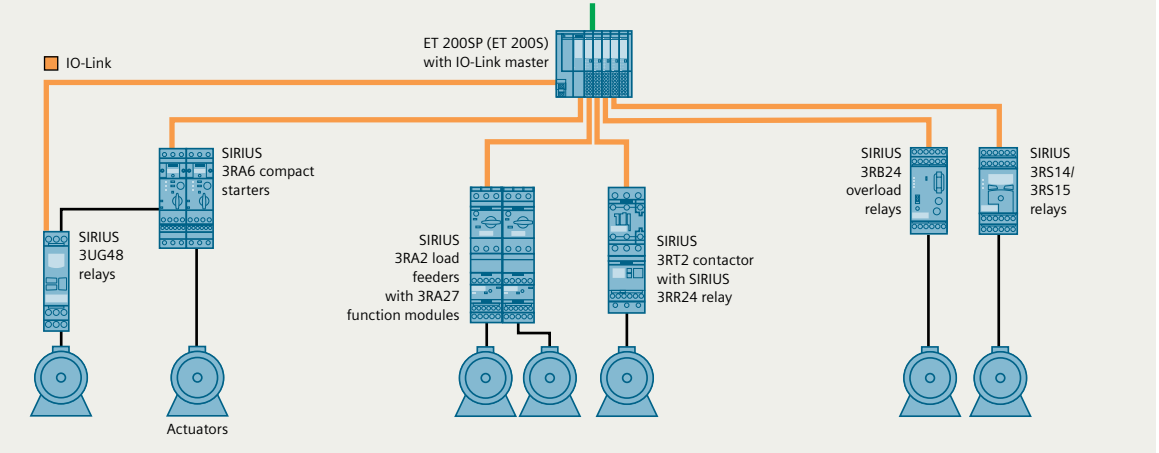
24 V DC Us 0
110 – 230 V AC; 110 V DC Us 1

*Operation of resistive loads with maximum 10 A

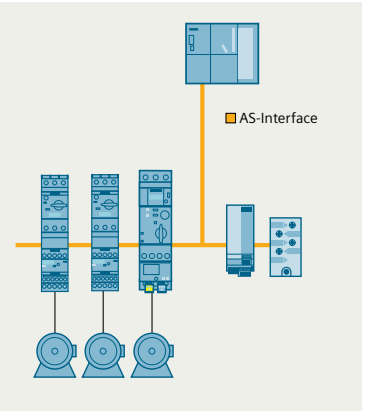
Note: The 3RM1 motor starters do not have integral short-circuit protection. They can be used very effectively in combination with SIRIUS motor starter protectors in group assemblies, for example.

Function modules for IO-Link or AS-i that are mounted on contactors (24 V DC) with communication interface are required for connecting the load feeders to the controller. Depending on the version, these communicate with an IO-Link interface group or any AS-i master. Alternatively, the contactors can be connected to the controller via IO-Link and by means of the 3RB24 overload relay. The 3RR24 current monitoring relays serve to provide optimum current monitoring of the overall system or the driven process.

Typical configuration in the environment of IO-Link



Typical configuration in the environment of AS-Interface



AS-Interface	
Version	Article No.
CP343-2P communications processor for connecting SIMATIC S7-300 to AS-Interface (AS-i Spec.3.0) for up to 62 load feeders	**6GK7343-2AH11-0XA0**
Front connector 20-pin, with screw-type 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 up to 62 load feeders	**6GK1415-2BA10**
– Double master for up to 124 load feeders	**6GK1415-2BA20**
AS-Interface power supply unit IP20	
– 120/230 V AC 3 A	**3RX9501-0BA00**
– 24 V DC 3 A	**3RX9501-1BA00**
– 120/230 V AC 5 A	**3RX9502-0BA00**
– 120/230 V AC 8 A	**3RX9503-0BA00**
Further system components for AS-Interface	**See Industry Mall or Catalog IKPI**

Three-phase motor 400 V	Rated operational current contactor
[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
18.5	40
22	50
30	65
37	80
37	80
45	95
55	110

Contactors S00 with communication interface	
Aux. contacts	Control supply voltage Article 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**
Contactors S0 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 terminals: 1
Spring-loaded terminals S00/S0: 2

Contactors S2 with communication interface	
	3RT2035-□NB30-0CC0
	3RT2036-□NB30-0CC0
	3RT2037-□NB30-0CC0
	3RT2038-□NB30-0CC0

Screw terminals: 1
Spring-loaded terminals in auxiliary circuit: 3

Contactors S3 with communication interface	
	3RT2045-□NB30-0CC0
	3RT2046-□NB30-0CC0
	3RT2047-□NB30-0CC0

Screw terminals: 1
Spring-loaded terminals in auxiliary circuit: 3

Function modules for mounting on 3RT2 contactors and for connecting to the automation level

Parallel wiring

Direct-on-line starter with time-delay relay

		Article No.
ON-delay	S00/S0 S2/S3 S2/S3	3RA2811-☐CW10 3RA2831-☐DG10 3RA2831-☐DH10
OFF-delay (with aux. voltage)	S00/S0 S2/S3 S2/S3	3RA2812-☐CW10 3RA2832-☐DG10 3RA2832-☐DH10

Reversing starter kits

		Article No.
Wiring kits for contactors	S00	3RA2913-2AA☐
Wiring kits for contactors	S0	3RA2923-2AA☐
Wiring kits for contactors	S2	3RA2933-2AA☐
Wiring kits for contactors	S3	3RA2943-2AA☐

Star-delta (wye-delta) starter[1) 2) 4)]

		Article No.
Function module		3RA2816-0EW20
Wiring kits for contactors	S00	3RA2913-2BB☐
Wiring kits for contactors	S0	3RA2923-2BB☐
Wiring kits for contactors	S2	3RA2933-2BB☐
Wiring kits for contactors	S3	3RA2943-2BB☐

IO-Link

IO-Link connection for direct-on-line starter[1) 2)]

	Article No.
Function module	3RA2711-☐AA00

IO-Link connection for reversing starter[1) 2) 3)]

		Article No.
Function module		3RA2711-☐BA00
Wiring kits for contactors	S00	3RA2913-2AA☐
Wiring kits for contactors	S0	3RA2923-2AA☐
Wiring kits for contactors	S2	3RA2933-2AA☐
Wiring kits for contactors	S3	3RA2943-2AA☐

IO-Link connection for star-delta (wye-delta) combinations[1) 2) 4)]

		Article No.
Function module		3RA2711-☐CA00
Wiring kits for contactors	S00	3RA2913-2BB☐
Wiring kits for contactors	S0	3RA2923-2BB☐
Wiring kits for contactors	S2	3RA2933-2BB☐
Wiring kits for contactors	S3	3RA2943-2BB☐

AS-Interface

AS-Interface connection for direct-on-line starter[1) 2)]

	Article No.
Function module	3RA2712-☐AA00

AS-Interface connection for reversing starter[1) 2) 3)]

		Article No.
Function module		3RA2712-☐BA00
Wiring kits for contactors	S00	3RA2913-2AA☐
Wiring kits for contactors	S0	3RA2923-2AA☐
Wiring kits for contactors	S2	3RA2933-2AA☐
Wiring kits for contactors	S3	3RA2943-2AA☐

AS-Interface connection for star-delta (wye-delta) combinations[1) 2) 4)]

		Article No.
Function module		3RA2712-☐CA00
Wiring kits for contactors	S00	3RA2913-2BB☐
Wiring kits for contactors	S0	3RA2923-2BB☐
Wiring kits for contactors	S2	3RA2933-2BB☐
Wiring kits for contactors	S3	3RA2943-2BB☐

Screw terminals: 1
Spring-loaded terminals: 2

Screw terminals: 1
Spring-loaded terminals: 2

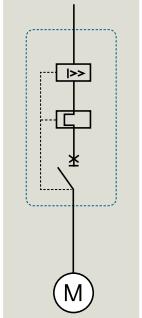
Screw terminals: 1
Spring-loaded terminals: 2

The contactor assemblies represented above can be combined with motor starter protectors, overload relays, and monitoring relays

[1)] The wiring modules for the control circuit are not required [2)] The contactor with basic module must be implemented as a communication contactor
[3)] Comprising 1 basic module and 1 coupling module [4)] Comprising 1 basic module and 2 coupling modules

Communication connection – Compact starter

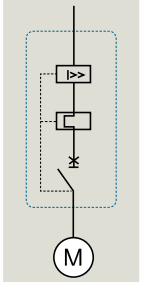
IO-Link



Setting range for electronic overload release	3RA64 direct-on-line starter	3RA65 reversing starter
	CPS[1]	CPS[1]
[A]	24 V DC	24 V DC
0.1 – 0.4	3RA6400-☐AB42	3RA6500-☐AB42
0.32 – 1.25	3RA6400-☐BB42	3RA6500-☐BB42
1 – 4	3RA6400-☐CB42	3RA6500-☐CB42
3 – 12	3RA6400-☐DB42	3RA6500-☐DB42
8 – 32	3RA6400-☐EB42	3RA6500-☐EB42

Accessories for compact starter with IO-Link, 3RA27 function modules and 3RB24 overload relays with IO-Link	
Module connector, 14-pole, 8 cm, for 1 space between two contactors	3RA2711-0EE02
Module connector, 14-pole, 21 cm, for diverse space combinations between two contactors	3RA2711-0EE03
Operator panel (incl. enabling module and interface cover)	3RA6935-0A
Connecting cable for operator panel	3RA6933-0A

AS-Interface



Setting range for electronic overload release	3RA61 direct-on-line starter	3RA62 reversing starter
	CPS[1]	CPS[1]
[A]	24 V AC/DC	24 V AC/DC
0.1 – 0.4	3RA6120-☐AB34	3RA6250-☐AB34
0.32 – 1.25	3RA6120-☐BB34	3RA6250-☐BB34
1 – 4	3RA6120-☐CB34	3RA6250-☐CB34
3 – 12	3RA6120-☐DB34	3RA6250-☐DB34
8 – 32	3RA6120-☐EB34	3RA6250-☐EB34
	Screw terminals: 1 Spring-loaded terminals: 2	Screw terminals: 1 Spring-loaded terminals: 2

AS-Interface accessories	
AS-i addressing unit	3RK1904-2AB0
AS-Interface mounting module for 3RA6 compact starter (24 V DC)	
Without additional inputs/outputs	3RA6970-3A
With two local inputs	3RA6970-3B
With two free external inputs	3RA6970-3C
With one free external input and one free external output	3RA6970-3D
With two free external outputs	3RA6970-3E
For local control	3RA6970-3F

[1] CPS: Control and protective switching device, IEC/EN 60947-6-2