SIEMENS

Ingenuity for life

Pioneering SIRIUS hybrid industrial controls

Starting motors with SIRIUS

SIRIUS Hybrid

siemens.com/sirius-hybrid

Control perfection with SIRIUS industrial controls

SIRIUS, the most modern, complete and innovated range of industrial controls can be subdivided into four core areas. They provide a good overview of the full spectrum of products and their functions.

The most modern technology with a perfect design

The hybrid switching technology combines the best of relay and semiconductor switching technology: The devices switch electronically via the integrated power semiconductor, and then low-loss electromechanical bypass contacts take over the current flow during operation.

SIRIUS Control

- Contactors
- Motor starter protectors
- Overload relays

SIRIUS Command

- Pushbuttons
- Signaling columns
- Position switches

SIRIUS Monitor

- Safety relays
- AS-Interface
- SIMOCODE
- Coupling/time/ monitoring relays

SIRIUS Hybrid

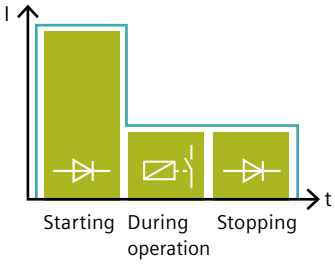
- 3RW soft starters
- 3RM1 motor starters
- ET 200SP motor starters
- Solid-state switching devices

The SIRIUS 3RW5 soft starter received the RedDot Design and the iF Design awards in 2018 thanks to numerous factors, including its slim, coordinated and uniform design across all sizes.

Low-wear switching thanks to hybrid switching technology

The spectrum of the SIRIUS 3RW soft starter ranges from two-phase controlled devices for standard applications to high-performance three-phase controlled equipment for demanding tasks. It covers all power ranges from 1.5 to 560 kW (soon up to 1200 kW) and is therefore ideal for creating cost-optimized and suitable drive solutions for any application. At the same time, users benefit from substantial energy savings in operation.

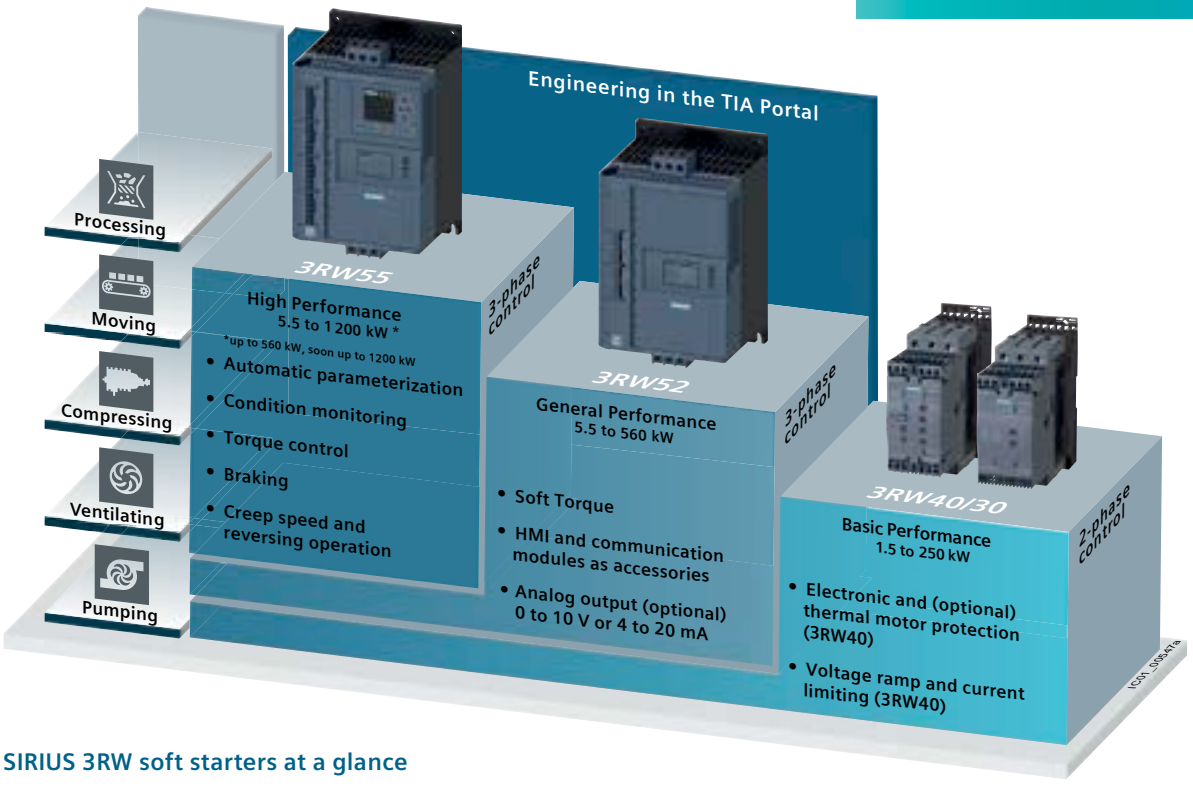
Reduced power losses in operation



Conventional industrial controls result in wear to the switching contacts every time a system is switched on or off, albeit in very small increments. That does not occur with hybrid switching technology, as due to the reduced starting current of the semiconductor components, the load on the switching contacts is minimized to such an extent that the mechanical components can achieve a significantly longer switching life.

Advantages at a glance

- Longer service lives for controls
- Economic advantages with increased switching cycles
- Lower energy costs and lower temperature rise in the control panel
- Prevention of current peaks and network voltage dips
- Low interference emission; smaller electrical voltage fluctuations in power systems (flicker)
- Reduced power losses in operation



SIRIUS 3RW soft starters at a glance

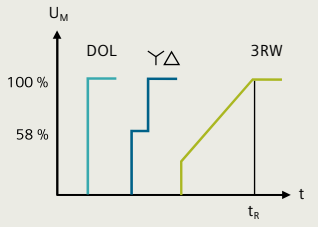
Good reasons for using soft starters

Motor voltage, motor current and motor torque are considerably different from direct-on-line or star-delta (wye-delta) starting: Soft increase of the motor voltage, limited motor current and flat motor torque provide considerable advantages.

- Lower mechanical wear of the drive train due to limitation of the starting current/torque
- Protection of the network voltage from excessive starting peaks by reduced current consumption

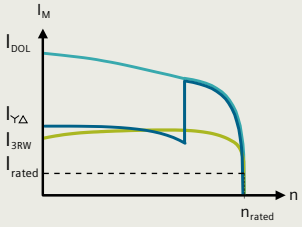
Graphic 1

Motor voltage



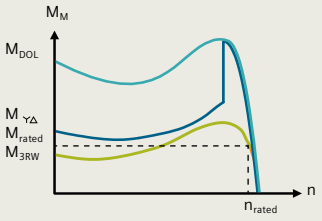
DOL: Direct-on-line starting
Y△: Star-delta (wye-delta) starting
3RW: Soft start
U_M: Motor voltage
I_M: Motor current

Motor current



M_M: Motor torque
t: Time
t_R: Ramp time
n: Speed
N: Rated values

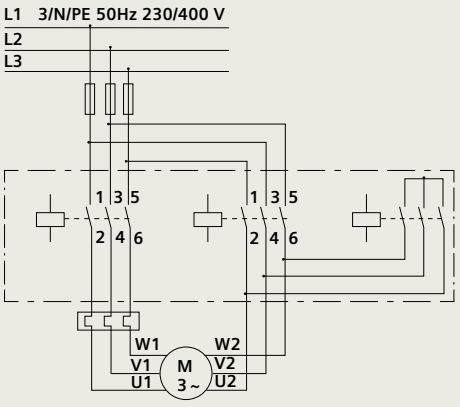
Motor torque



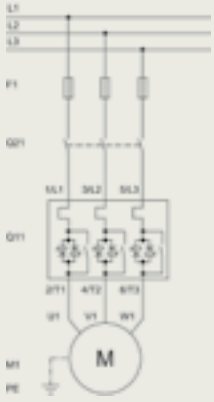
- Considerable savings on wiring in the control panel compared with a contactor assembly for star-delta (wye-delta) starting

Graphic 2

Circuit diagram for star-delta (wye-delta) starter



Circuit diagram for soft starter



Advantages at a glance

- Minimum power loss due to integrated bypass contacts after successful startup
- No additional heat generation
- Low maintenance costs
- Compact design and low capital investment costs compared with frequency converters
- Substantial space savings in the control panel compared with a contactor assembly for star-delta (wye-delta) starting

Simply the cleverer choice for many applications

There is no general answer to whether a soft starter or frequency converter is the optimum solution. The decisive factors are the application itself and its specific boundary conditions such as mechanical load, cost efficiency, compliance with standards, reliability, energy efficiency balance, etc.

Added value due to soft starter

While, for applications with flexible speeds, the use of a frequency converter is recommended, soft starters are always the first choice when the application does not require variable speed.

In this case, as a low-cost and low-maintenance drive solution that does not need extensive accessories, soft starters offer a whole range of advantages:

Advantages of a soft starter at a glance

Lower capital investment costs

Space savings thanks to compact design

Low maintenance costs

No additional heat generation

Easy to wire

Reduced energy losses during operation due to bypass contacts

EMC-optimized for less interference from unwanted electrical or electromagnetic effects

Selection of the right 3RW soft starter – engineering made easy

Specifying motor and load data results in the correct soft starter. For easy selection of the correctly dimensioned soft starter, two selection tools are available free of charge:

STS = **S**imulation **T**ool for **S**oft Starters as an application-specific selection aid

TST= **T**IA **S**election **T**ool as a configurator

More information on these tools is available in Siemens Industry Online Support at **www.siemens.com/sios** (keywords STS and TIA Selection Tool).

Digital product data for all common engineering tools make engineering simple.

SIRIUS 3RW30

The SIRIUS 3RW30 soft starter for easy starting conditions

- Two-phase controlled
- Motors up to 55 kW (at 400 V)
- No soft stopping
- Very compact for space saving in the control panel
- Optimum adaptation to the drive task by individual potentiometers for starting voltage (40 ... 100%), startup time up to 20 s for fast commissioning
- Modern hybrid switching technology

SIRIUS 3RW30 soft starters

Rated operational voltage U_e	Rated operational current I_e	Rated power of three-phase motors at rated operational voltage U_e		Size	Article No.
V	A	kW at 230 V	kW at 400 V		
Soft starters for easy starting conditions and high switching frequency					
200 ... 400	3	0.55	1.1	22.5 mm	3RW3003-☐CB5 4
Soft starters for three-phase asynchronous motors					
200 ... 480	3.6	0.75	1.5	S00	3RW3013-☐BB☐4
	6.5	1.5	3	S00	3RW3014-☐BB☐4
	9	2.2	4	S00	3RW3016-☐BB☐4
	12.5	3	5.5	S00	3RW3017-☐BB☐4
	17.6	4	7.5	S00	3RW3018-☐BB☐4
	25	5.5	11	S0	3RW3026-☐BB☐4
	32	7.5	15	S0	3RW3027-☐BB☐4
	38	11	18.5	S0	3RW3028-☐BB☐4
	45	11	22	S2	3RW3036-☐BB☐4
	63	18.5	30	S2	3RW3037-☐BB☐4
	72	22	37	S2	3RW3038-☐BB☐4
Size S0	80	22	45	S3	3RW3046-☐BB☐4
	106	30	55	S3	3RW3047-☐BB☐4

☐ = Article No. supplement for connection types:

☐ = Article No. supplement for rated control supply voltage U_s:

* Main connection from size S2: Screw terminals

Screw terminals — 1
Spring-type terminals* — 2
24 V AC/DC — 0
110 ... 230 V AC/DC — 1

Dimensions W x H x D in mm		3RW300.	3RW301.	3RW302.	3RW303.	3RW304.
Screw terminals		22.5 x 100 x 120	45 x 95 x 151	45 x 125 x 151	55 x 144 x 168	70 x 160 x 186
Spring-type terminals		22.5 x 102 x 120	45 x 117 x 151	45 x 150 x 151	55 x 144 x 168	70 x 160 x 186

The 3RW soft starters should always be designed on the basis of the required rated operational current of the motor. The motor ratings listed in the selection and ordering data are rough guide values and designed for normal starting conditions (CLASS 10). For other starting conditions we recommend the Simulation Tool for Soft Starters (STS).

SIRIUS 3RW40

The SIRIUS 3RW40 soft starter for simple starting **and** stopping conditions (not only soft starting but also soft stopping 0 ... 20 s and settable current limitation)

- Two-phase controlled
- Motors up to 250 kW (at 400 V)
- Integrated intrinsic device protection prevents overload of the device
- Perfect protection thanks to integrated motor overload protection (Class 10, 15, 20) and optional thermistor motor protection, manual and remote reset as standard
- Modern hybrid switching technology

SIRIUS 3RW40 soft starters, Class 10

Rated operational voltage U_e	Rated operational current I_e	Rated power of three-phase motors at rated operational voltage U_e		Size	Article No.
V	A	kW at 230 V	kW at 400 V		
200 ... 480	12.5	3	5.5	S0	3RW4024-☐BB☐4
	25	5.5	11	S0	3RW4026-☐BB☐4
	32	7.5	15	S0	3RW4027-☐BB☐4
	38	11	18.5	S0	3RW4028-☐BB☐4
	45	11	22	S2	3RW4036-☐BB☐4
	63	18.5	30	S2	3RW4037-☐BB☐4
	72	22	37	S2	3RW4038-☐BB☐4
	80	22	45	S3	3RW4046-☐BB☐4
	106	30	55	S3	3RW4047-☐BB☐4

☐ = Article No. supplement for connection types:

☐ = Article No. supplement for rated control supply voltage U_s:

* Main connection from size S2: Screw terminals

Screw terminals — 1
Spring-type terminals* — 2
24 V AC/DC — 0
110 ... 230 V AC/DC — 1

200 ... 460	134	37	75	S6	3RW4055-☐BB☐4
	162	45	90	S6	3RW4056-☐BB☐4
	230	75	132	S12	3RW4073-☐BB☐4
	280	90	160	S12	3RW4074-☐BB☐4
	356	110	200	S12	3RW4075-☐BB☐4
	432	132	250	S12	3RW4076-☐BB☐4

☐ = Article No. supplement for connection types*:

☐ = Article No. supplement for rated control supply voltage U_s:

* Main circuit connection: Busbar connections

Screw terminals — 6
Spring-type terminals — 2
115 V AC — 3
230 V AC — 4

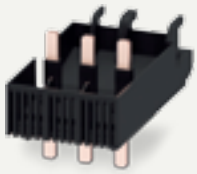
Dimensions W x H x D in mm		3RW402.	3RW403.	3RW404.	3RW405.	3RW407.
Screw terminals		45 x 125 x 154	55 x 144 x 170	70 x 160 x 188	120 x 198 x 250	160 x 230 x 278
Spring-type terminals		45 x 150 x 154	55 x 144 x 170	70 x 160 x 188	120 x 198 x 250	160 x 230 x 278

The following versions can also be supplied:
- For rated operational voltage 400 ... 600 V
- Sizes S0 to S3 with integrated thermistor motor protection (for motor with thermoclick or PTC type A)

The 3RW soft starters should always be designed on the basis of the required rated operational current of the motor. The motor ratings listed in the selection and ordering data are rough guide values and designed for normal starting conditions (CLASS 10). For other starting conditions we recommend the Simulation Tool for Soft Starters (STS).

Optional accessories for SIRIUS 3RW30 and 3RW40

Optional accessories for 3RW30 and 3RW40 soft starters

Link module soft starter to motor starter protector*	Soft starter		Motor starter protector	Article No.
	Type	Size	Size	
	With screw terminals			
	3RW301.	S00	S00	3RA2921-1BA00
	3RW302.	S0	S00/S0	3RA2921-1BA00
	3RW402.			
	3RW3036.	S2	S2	3RA2931-1AA00
	3RW4036.			
	3RW3046.	S3	S3	3RA1941-1AA00
	3RW3047.			
	3RW4046.			
	3RW4047.			
	With spring-type terminals			
	3RW301.	S00	S00	3RA2911-2GA00
	3RW302.	S0	S0	3RA2921-2GA00
	3RW402.			

* Can be used in size S0 up to 32 A
In size S2 up to 65 A with DIN rail adapter for soft starter (article no.: 3RA2932-1CA00)
Can be used in size S3 with mounting plate only

Optional accessories for the 3RW40 soft starter

Fan*	Soft starter		Article No.
	Type	Size	
	3RW402.	S0	3RW4928-8VB00
	3RW403.	S2	3RW4947-8VB00
	3RW404.	S3	

* To increase switching frequency and for device mounting in positions different to the standard position

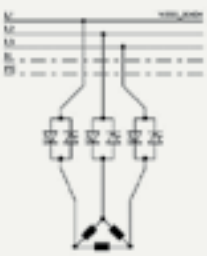
Optional/inclusive accessories for the 3RW52 and 3RW55 soft starters

Optional/inclusive accessories for the soft starters 3RW52 and 3RW55

Version	Soft starter	Optional/inclusive	Article No.
Hinged cover			
Without cutout	3RW52	- / X	3RW5950-0GL20
	3RW55	X / -	
With cutout for HMI Standard	3RW52	X / -	3RW5950-0GL40
	3RW55	- / -	
With cutout for HMI High Feature	3RW52	X / -	3RW5950-0GL30
	3RW55	- / X	
HMI modules			
Standard	3RW52	X / -	3RW5980-0HS00
	3RW55	- / -	
High Feature	3RW52	X / -	3RW5980-0HF00
	3RW55	- / X	
Communication modules			
PROFINET Standard	3RW52/55	X / -	3RW5980-0CS00
PROFIBUS	3RW52/55	X / -	3RW5980-0CP00
Modbus TCP	3RW52/55	X / -	3RW5980-0CT00

Fan covers	Required quantity	Soft starter	Optional	Article No.
	1x	3RW5216/5217	X	3RW5983-0FC00
		3RW551	X	
	2x	3RW5226/5227	X	3RW5983-0FC00
		3RW523	X	
		3RW552/553	X	
	1x	3RW524	X	3RW5984-0FC00
		3RW554	X	

When selecting a 3-phase controlled soft starter, the two options of inline circuit or inside-delta circuit should always be checked (see selection tables). In an inside-delta circuit, the starting current is reduced by approx. ⅓. For that reason, a smaller soft starter can be selected.



Inline circuit

- Easier wiring (3 wires)
- Compared with an inside-delta circuit, a larger soft starter must be selected

Inside-delta circuit

- More complicated wiring (6 wires, smaller conductor cross-section can be used than for an inline circuit)
- Star-delta (wye-delta) easily replaceable by inside-delta soft starter solution thanks to existing wiring
- Selection of a smaller soft starter at a lower price possible because the starting current is reduced by approx. ⅓.

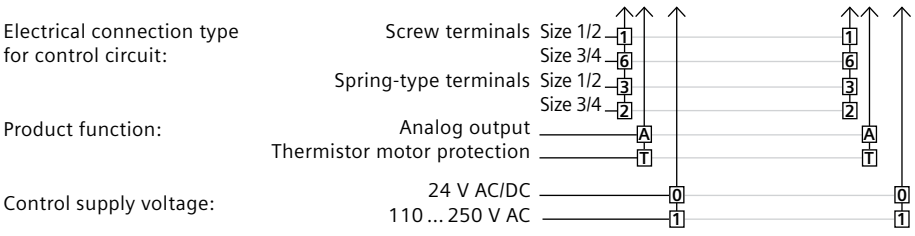
SIRIUS 3RW52

The SIRIUS 3RW52 soft starter as an ideal solution for normal starting and stopping

- Three-phase controlled
- For drives from 5.5 to 560 kW at 400 V (maximum 600 V AC)
- Soft starting and stopping
- Current limiting and motor overload protection
- Soft torque (reduces the mech. load during starting and improves pump stopping)
- Optional HMI modules
- Plug-in communication modules (PROFINET, PROFIBUS; Modbus)
- Optional TIA Integration / HMI modules
- Modern hybrid switching technology

SIRIUS 3RW52 soft starters for standard applications, Class 10A, operational voltage 200 ... 480 V

Operational current at 40°C in A		Operating power for three-phase motors		Size	Article No.	Article No.
Standard	Inside-delta circuit*	kW at 230 V	kW at 400 V		Inline circuit	Inside-delta circuit*
13	–	3	5.5	Size 1	3RW5213-☐☐C☐4	–
18	–	4	7.5	Size 1	3RW5214-☐☐C☐4	–
25	22.5	5.5	11	Size 1	3RW5215-☐☐C☐4	3RW5213-☐☐C☐4
32	31.5	7.5	15	Size 1	3RW5216-☐☐C☐4	3RW5214-☐☐C☐4
38	43.3	11	18.5	Size 1	3RW5217-☐☐C☐4	3RW5215-☐☐C☐4
47	55.4	11/15 *	22	Size 2/Size 1*	3RW5224-☐☐C☐4	3RW5216-☐☐C☐4
63	65.8	18.5	30	Size 2/Size 1*	3RW5225-☐☐C☐4	3RW5217-☐☐C☐4
77	–	22	37	Size 2	3RW5226-☐☐C☐4	–
93	81.4	22	45	Size 2	3RW5227-☐☐C☐4	3RW5224-☐☐C☐4
113	109	30	55	Size 3/Size 2*	3RW5234-☐☐C☐4	3RW5225-☐☐C☐4
143	133	37	75	Size 3/Size 2*	3RW5235-☐☐C☐4	3RW5226-☐☐C☐4
171	161	45	90	Size 3/Size 2*	3RW5236-☐☐C☐4	3RW5227-☐☐C☐4
210	196	55	110	Size 4/Size 3*	3RW5243-☐☐C☐4	3RW5234-☐☐C☐4
250	248	75	132	Size 4/Size 3*	3RW5244-☐☐C☐4	3RW5235-☐☐C☐4
315	296	90	160	Size 4/Size 3*	3RW5245-☐☐C☐4	3RW5236-☐☐C☐4
370	364	110	200	Size 4	3RW5246-☐☐C☐4	3RW5243-☐☐C☐4
470	433	132	250	Size 4	3RW5247-☐☐C☐4	3RW5244-☐☐C☐4
570	546	160	315	Size 4	3RW5248-☐☐C☐4	3RW5245-☐☐C☐4
–	641	200	355	Size 4	–	3RW5246-☐☐C☐4
–	814	250	400	Size 4	–	3RW5247-☐☐C☐4
–	987	315	560	Size 4	–	3RW5248-☐☐C☐4



Dimensions W x H x D in mm		3RW521.	3RW522., 3RW523.	3RW524.
Screw fixing		170 x 275 x 152	185 x 306 x 203	210 x 393 x 203

The following versions are also available: for rated operational voltage 200 ... 600 V
The 3RW soft starters should always be designed on the basis of the required rated operational current of the motor. The motor ratings listed in the selection and ordering data are rough guide values and designed for normal starting conditions (CLASS 10). For other starting conditions we recommend the Simulation Tool for Soft Starters (STS).

SIRIUS 3RW55

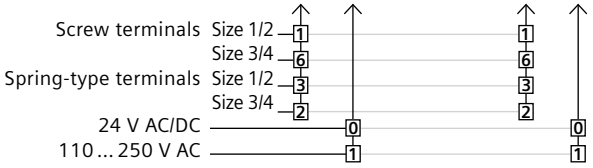
The SIRIUS 3RW55 soft starter as a perfect solution for difficult starting and stopping operations

- Three-phase controlled
- For drives from 5.5 to 560 kW (soon up to 1200 kW) at 400 V (can be used in supply systems up to 690 V)
- Soft starting and stopping
- Current limiting and motor overload protection
- Pump stop and torque control
- Plug-in communication modules (PROFINET, PROFIBUS; Modbus)
- Automatic parameterization
- Removable HMI module with color display and slot for micro SD memory card
- Optional integration into the TIA Portal
- Modern hybrid switching technology

Soft starter for difficult starting and stopping, SIRIUS 3RW55, Class 10E, operational voltage 200 ... 480 V

Operational current at 40°C in A		Operating power for three-phase motors		Size	Article No.	Article No.
Standard	Inside-delta circuit*	kW at 230 V	kW at 400 V		Inline circuit	Inside-delta circuit*
13	–	3	5.5	Size 1	3RW5513-☐HA☐4	–
18	–	4	7.5	Size 1	3RW5514-☐HA☐4	–
25	22.5	5.5	11	Size 1	3RW5515-☐HA☐4	3RW5513-☐HA☐4
32	31.5	7.5	15	Size 1	3RW5516-☐HA☐4	3RW5514-☐HA☐4
38	43.3	11	18.5	Size 1	3RW5517-☐HA☐4	3RW5515-☐HA☐4
47	55.4	11/15*	22	Size 2/Size 1*	3RW5524-☐HA☐4	3RW5516-☐HA☐4
63	65.8	18.5	30	Size 2/Size 1*	3RW5525-☐HA☐4	3RW5517-☐HA☐4
77	–	22	37	Size 2	3RW5526-☐HA☐4	–
93	81.4	22	45	Size 2	3RW5527-☐HA☐4	3RW5524-☐HA☐4
113	109	30	55	Size 3/Size 2*	3RW5534-☐HA☐4	3RW5525-☐HA☐4
143	133	37	75	Size 3/Size 2*	3RW5535-☐HA☐4	3RW5526-☐HA☐4
171	161	45	90	Size 3/Size 2*	3RW5536-☐HA☐4	3RW5527-☐HA☐4
210	196	55	110	Size 4/Size 3*	3RW5543-☐HA☐4	3RW5534-☐HA☐4
250	248	75	132	Size 4/Size 3*	3RW5544-☐HA☐4	3RW5535-☐HA☐4
315	296	90	160	Size 4/Size 3*	3RW5545-☐HA☐4	3RW5536-☐HA☐4
370	364	110	200	Size 4	3RW5546-☐HA☐4	3RW5543-☐HA☐4
470	433	132	250	Size 4	3RW5547-☐HA☐4	3RW5544-☐HA☐4
570	546	160	315	Size 4	3RW5548-☐HA☐4	3RW5545-☐HA☐4
–	641	200	355	Size 4	–	3RW5546-☐HA☐4
–	814	250	400	Size 4	–	3RW5547-☐HA☐4
–	987	315	560	Size 4	–	3RW5548-☐HA☐4

Electrical connection type for control circuit:



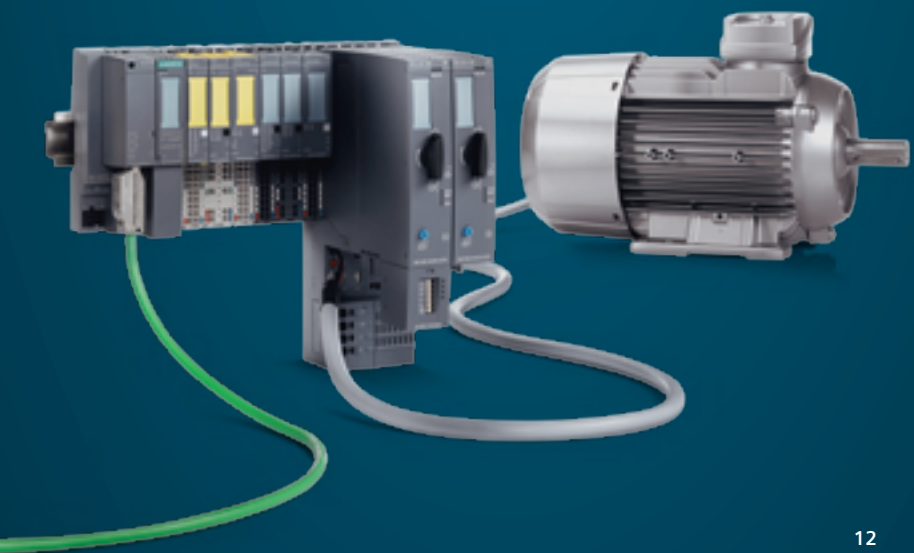
Control supply voltage:

Dimensions W x H x D in mm		3RW551.	3RW552., 3RW553.	3RW554.
Screw fixing		170 x 275 x 152	185 x 306 x 203	210 x 393 x 203

The following versions are also available: For rated operational voltage 200 ... 600 V (3RW551) and 200 ... 690 V (3RW552, 3RW553 and 3RW554)
The 3RW soft starters should always be designed on the basis of the required rated operational current of the motor. The motor ratings listed in the selection and ordering data are rough guide values and designed for normal starting conditions (CLASS 10). For other starting conditions we recommend the Simulation Tool for Soft Starters (STS).

3RM1 and ET 200SP motor starters

For starting one or more motors, the conditions on site and the requirements of the application are very different. For that reason, Siemens offers in addition other solutions to start motors using modern hybrid switching technology with all the associated advantages: 3RM1 motor starters, when space is at a premium, or ET 200SP motor starters for active communication with the controller despite the confined space.



You choose which solution is the most suitable.

Both starters can be ordered as direct-on-line starters and reversing starters.

You decide on spring-type or screw terminals.

Even safety applications are no problem because both starters are also available as failsafe version.

3RM1 motor starters

If every millimeter in the control panel counts, the 3RM1 motor starters with hybrid switching technology are the perfect solution for starting motors up to 3 kW (at 400 V).

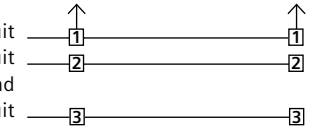
- In a width of only 22.5 mm
- Relay contacts, power semiconductors and electronic overload relays (overload protection) in one device
- Available as direct-on-line and reversing starters
- Versions with safety-related shutdown up to SIL3/PL e
- Three-phase infeed system for easy, time-saving and safe infeed of two or more motor starters
- Wide setting range for reduction of variation
- Group configurations in the smallest possible space
- Replaceable terminals (screw and spring-type connections)
- Modern hybrid switching technology

Motor starter as a direct-on-line or reversing starter, with/without failsafe, dimensions in mm (W x H x D) 22.5 x 100 x 141.6

Rating for three-phase motor at 400 V in kW	Adjustable current response value of the inverse-time delayed overload release in A	Control supply voltage in V		Article No.	
		at DC	at 50/60 Hz AC	3RM1 direct-on-line starter	3RM1 reversing starter
0...0.12	0.1...0.5	24	–	3RM1001-☐AA04	3RM1201-☐AA04
0.09...0.75	0.4...2	24	–	3RM1002-☐AA04	3RM1202-☐AA04
0.55...3	1.6...7	24	–	3RM1007-☐AA04	3RM1207-☐AA04
0...0.12	0.1...0.5	110	110...230	3RM1001-☐AA14	3RM1201-☐AA14
0.09...0.75	0.4...2	110	110...230	3RM1002-☐AA14	3RM1202-☐AA14
0.55...3	1.6...7	110	110...230	3RM1007-☐AA14	3RM1207-☐AA14
				Failsafe	
0...0.12	0.1...0.5	24	–	3RM1101-☐AA04	3RM1301-☐AA04
0.09...0.75	0.4...2	24	–	3RM1102-☐AA04	3RM1302-☐AA04
0.55...3	1.6...7	24	–	3RM1107-☐AA04	3RM1307-☐AA04
0...0.12	0.1...0.5	110	110...230	3RM1101-☐AA14	3RM1301-☐AA14
0.09...0.75	0.4...2	110	110...230	3RM1102-☐AA14	3RM1302-☐AA14
0.55...3	1.6...7	110	110...230	3RM1107-☐AA14	3RM1307-☐AA14

Type of electrical connection:

Screw terminals for main/control circuit
Spring-type (push-in) terminals for main/control circuit
Screw terminals for main circuit and
Spring-type (push-in) terminals for control circuit



Optional accessories for the 3RM1 motor starter

Version	Article No.
Device connector for 3RM1, 24 V DC	3ZY1212-2EA00
Device terminating connector for 3RM1, 24 V DC	3ZY1212-2FA00
Three-phase infeed system for 3RM1 with screw terminals	
Three-phase infeed terminal	3RM1920-1AA
Three-phase busbar for 2 motor starters	3RM1910-1AA
Three-phase busbar for 3 motor starters	3RM1910-1BA
Three-phase busbar for 5 motor starters	3RM1910-1DA
Covers for 3 connection tags of the three-phase busbars	3RM1910-6AA

ET 200SP motor starters

The SIMATIC ET 200SP motor starter with its safety and standard function now completes the distributed I/O system. The compact modules for switching and protecting 1- and 3-phase loads up to 5.5 kW are available in four wide setting ranges. With transmission of current values and further diagnostic messages, they offer a variety of options for plant monitoring.

- Only 30 mm module width
- Controlling, switching, starting and monitoring in the ET 200SP system
- Integrated short-circuit and overload protection
- Fast maintenance thanks to automatic parameter uploading
- Extensive analysis and diagnostic data, alarm status displays
- Energy management functions (current evaluations for an energy-efficient plant)
- Spring-type terminals (push-in)
- Toolless connection system
- An ordering unit always consists of a motor starter and a BaseUnit
- Connect main and supply voltage only once, i.e.: side-by-side modules are automatically connected
- Unplugging/plugging possible while system is energized and the ET 200SP station is running
- Modern hybrid switching technology

Motor Starter ET 200SP, dimensions in mm (W x H x D) 30 x 142 x 150

Current-carrying capacity during starting, max. in A	Adjustable current response value of the inverse-time delayed overload release in A	Article No.	
		Direct-on-line starter	Reversing starters
10	0.3...1	3RK1308-0☐ B00-0CP0	3RK1308-0☐ B00-0CP0
30	0.9...3	3RK1308-0☐ C00-0CP0	3RK1308-0☐ C00-0CP0
90	2.8...9	3RK1308-0☐ D00-0CP0	3RK1308-0☐ D00-0CP0
100	4...12	3RK1308-0☐ E00-0CP0	3RK1308-0☐ E00-0CP0
		Standard A Failsafe C	Standard B Failsafe D

BaseUnits, operating voltage rated value up to 500 V, dimensions in mm (W x H x D) 30 x 215 x 75

Version	Operating voltage of the AC infeed in V	Supply voltage of the DC infeed in V	Article No.
for AC/DC infeed	500	24	3RK1908-0AP00-0AP0
for AC infeed	500	–	3RK1908-0AP00-0CP0
for DC infeed	–	24	3RK1908-0AP00-0BP0
without infeed	–	–	3RK1908-0AP00-0DP0
with AC infeed, with F-DI for failsafe motor starters	500	–	3RK1908-0AP00-0EP0
without AC infeed, with F-DI for failsafe motor starters	–	–	3RK1908-0AP00-0FP0

Optional accessories

Version	Article No.
Control Module 3DI/LC (push-in terminal, control supply voltage for DC rated value 20.4 ... 28.8 V), dimensions in mm (W x H x D) 30 x 54.5 x 42.3	3RK1908-1AA00-0BP0
Fans (already incl. at 12 A)	3RW4928-8VB00
Additional mechanical mounting, bag of 5 items	3RK1908-1EA00-1BP0
Cover for BaseUnit for protection of empty slots, 30 mm	3RK1908-1CA00-0BP0

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