

Switching Devices – Soft Starters and Solid-State Switching Devices

SIRIUS 3RW Soft Starters

High Performance Soft Starters

NEW 3RW55 Failsafe soft starters > General data

Overview

More information

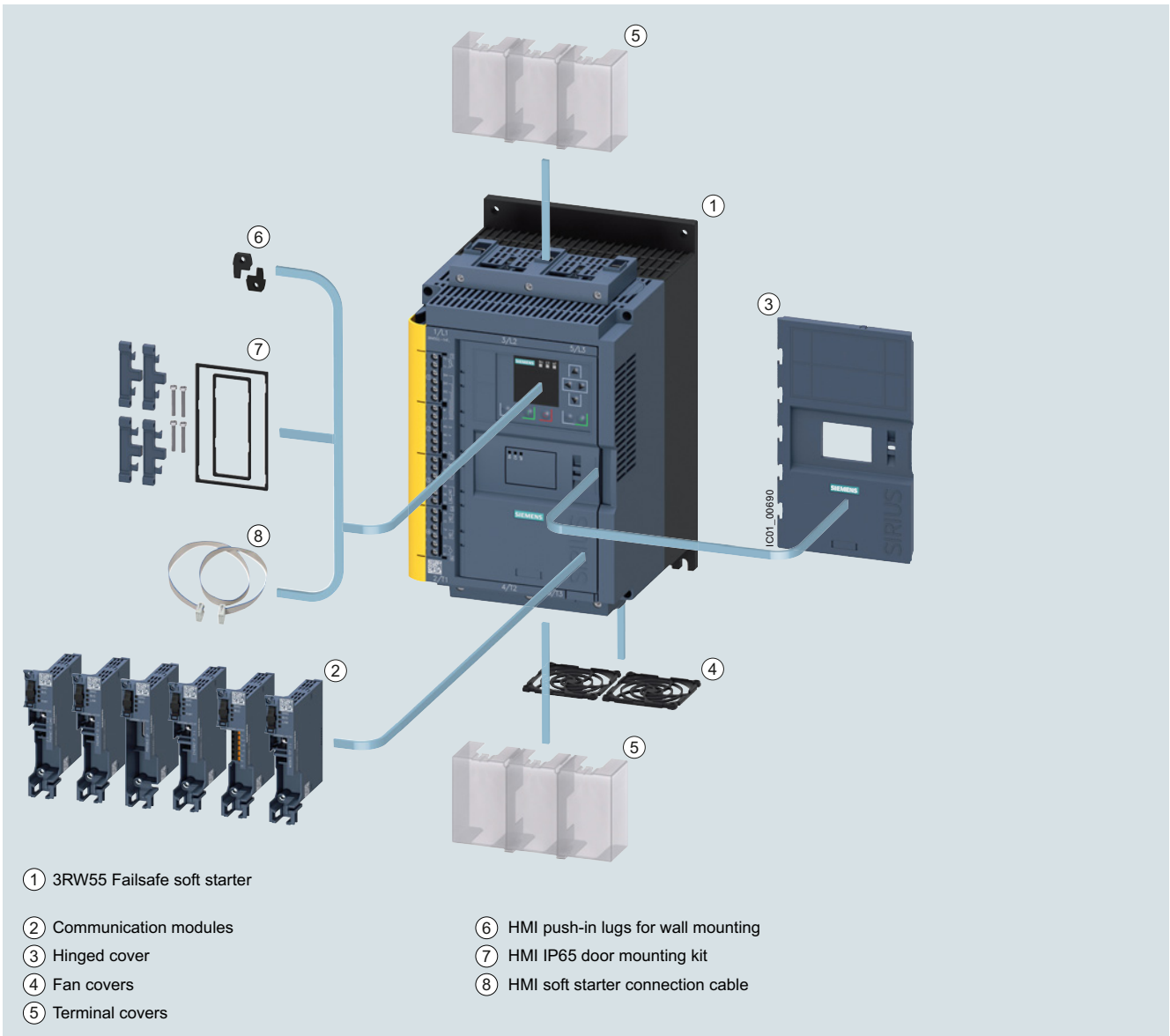
Homepage, see www.siemens.com/soft-starter
 Industry Mall, see www.siemens.com/product?3RW
 Industry Online Support (SIOS) topic page, see <https://support.industry.siemens.com/cs/ww/en/view/109747404>

Simulation Tool for Soft Starters (STS), see page 6/8 or <https://support.industry.siemens.com/cs/ww/en/view/101494917>
 SIRIUS Soft Starter ES (TIA Portal), see page 14/2



Equipped with the utmost functionality, the SIRIUS 3RW55 Failsafe High Performance soft starters confidently handle even difficult starting and stopping operations. Thanks to innovative torque control, the device can be used for drives with an output of between 5.5 kW and 560 kW (at 400 V).

The innovative 3RW55 Failsafe soft starter features an integrated fail-safe digital input for directly connecting the EMERGENCY STOP, and thus covers SIL 1 STO applications. The HMI (with color display, local interface and a slot for micro SD memory card) and plug-in communication modules (PROFINET, PROFIBUS, EtherNet/IP and Modbus) ensure maximum flexibility. With their modern hybrid switching technology, the 3RW55 Failsafe soft starters offer efficient switching for long-term, energy-saving use.



3RW55 Failsafe High Performance soft starters with accessories (see page 6/52)

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Benefits



Product characteristics / function	Performance features / benefits
Automatic parameterization	Extremely easy commissioning and reliability even under changing load conditions
Hybrid switching devices and three-phase motor control	Minimum power loss and optimum/symmetrical motor control
Integration into TIA Portal – communication modules optional	Efficient configuration and maximum flexibility in automation engineering
Removable HMI with color display, local interface, slot for micro SD memory card	Maximum flexibility with regard to user interface and intuitive menu guidance
Pump stop and torque control	Reduced mechanical loading and optimum pump stop control
Certified according to ATEX/IECEx directive	Suitable for the starting of explosion-proof motors
Fail-safe disconnection up to SIL 3 - PL e / STO	Reduced costs and space requirements thanks to direct wiring of the EMERGENCY STOP mushroom pushbutton to the soft starter for SIL 1

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Technical specifications

More information

Technical specifications, see
<https://support.industry.siemens.com/cs/ww/en/ps/25776/td>
 Equipment Manual "SIRIUS 3RW55 Soft Starter", see
<https://support.industry.siemens.com/cs/ww/en/view/109753752>

FAQs, see <https://support.industry.siemens.com/cs/ww/en/ps/25776/faq>
 Simulation Tool for Soft Starters (STS), see page 6/8 or
<https://support.industry.siemens.com/cs/ww/en/view/101494917>

Type

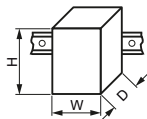
3RW551.-.HF.4

3RW552.-.HF.4
3RW553.-.HF.4

3RW554.-.HF.4

Installation/fixing/dimensions

Width x height x depth



mm

170 × 275 × 152

185 × 306 × 203

210 × 393 × 203

Type of mounting

Screw fixing

Mounting position

Vertical (can be rotated +/- 90° and tilted +/- 22.5° forward or backward)

Distance to be maintained with side-by-side mounting

- Above
- At the side
- Below

mm

100

mm

5

mm

75

Maximum installation altitude above sea level¹⁾

m

2 000

Degree of protection

IP00

Ambient conditions

Ambient temperature

- During operation²⁾
- During storage and transport

°C

-25 ... +60

°C

-40 ... +80

Environmental category according to IEC 60721

- During operation
- During storage
- During transport

3K6 (no ice formation, no condensation), 3C3 (no salt mist),
 3S2 (sand must not get into the devices), 3M6
 1K6 (only occasional condensation), 1C2 (no salt mist),
 1S2 (sand must not enter the devices), 1M4
 2K2, 2C1, 2S1, 2M2 (max. height of fall 0.3 m)

¹⁾ Derating from 1 000 m, see characteristic curve on page 6/8.

²⁾ Note derating above 40 °C.

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Type	3RW55...-HF0.		3RW55...-HF1.
Control circuit/control			
Control supply voltage			
• At AC/DC, rated value	V	24/24	--/--
• At AC	V	--	110 ... 250
• Relative negative tolerance/relative positive tolerance with AC	%	-20/20	-15/10
• Relative negative tolerance/relative positive tolerance with DC	%	-20/20	--/--
Frequency of the control supply voltage			
• Relative negative tolerance/relative positive tolerance	Hz	50 ... 60	
	%	-10/10	
Type of overvoltage protection			
Varistors			
Type of short-circuit protection for control circuit ¹⁾			
Fuse 4 A gG (I_{CU} = 1 kA), fuse 6 A quick-response (I_{CU} = 1 kA), MCB C1 (I_{CU} = 600 A), MCB C6 (I_{CU} = 300 A)			

¹⁾ Not included in scope of supply

Type	3RW55...HF.4	
Power electronics		
Operational voltage, rated value	V	200 ... 480
• Relative negative tolerance/relative positive tolerance	%	-15/10
Operational voltage for inside-delta circuit, rated value	V	200 ... 480
• Relative negative tolerance/relative positive tolerance	%	-15/10
Operating frequency, rated value	Hz	50 ... 60
• Relative negative tolerance/relative positive tolerance	%	-10/10
Minimum load [% of I_M] ¹⁾	%	10
Maximum cable length between soft starter and motor	m	800

¹⁾ Relative to set I_e .

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3RW55 Failsafe soft starters > General data

Type		3RW5513	3RW5514	3RW5515	3RW5516	3RW5517
Rated operational current I_e	A	13	18	25	32	38
Power electronics						
Load rating with rated operational current I_e						
IEC + UL/CSA, individual mounting at 40/50/60 °C, A AC-53a	A	13/11.5/10.5	18/15.9/13.8	25/22.3/19.6	25/22.3/19.6	38/33.5/30.5
Permissible rated motor current and starts/h						
Normal starting (CLASS 10A)						
Rated motor current I_M , $T_u = 40/50/60$ °C	A	13/11.5/10.5	18/15.9/13.8	25/22.3/19.6	32/28.4/26	38/33.5/30.5
ON period = 70%; motor protection activated						
• 300% I_M						
- Start-up time 5 s	1/h	43	43	43	43	43
- Start-up time 10 s	1/h	18	18	18	18	18
• 350% I_M						
- Start-up time 5 s	1/h	28	28	28	28	28
- Start-up time 10 s	1/h	10	10	10	10	10
Normal starting (CLASS 10E)						
Rated motor current I_M , $T_u = 40/50/60$ °C	A	13/11.5/10.5	18/15.9/13.8	25/22.3/19.6	32/28.4/26	38/33.5/30.5
ON period = 70%; motor protection activated						
• 300% I_M						
- Start-up time 5 s	1/h	21	21	21	21	21
- Start-up time 10 s	1/h	8	8	8	8	8
• 350% I_M						
- Start-up time 5 s	1/h	13	13	13	13	13
- Start-up time 10 s	1/h	4	4	4	4	4
Heavy starting (CLASS 20E)						
Rated motor current I_M , $T_u = 40/50/60$ °C	A	13/11.5/10.5	18/15.9/13.8	25/22.3/19.6	29.6/27.2/23.6	33.5/30.5/27.5
ON period = 70%; motor protection activated						
• 300% I_M						
- Start-up time 20 s	1/h	10	10	10	10	10
- Start-up time 40 s	1/h	4	4	4	4	4
• 350% I_M						
- Start-up time 20 s	1/h	7	7	7	7	7
- Start-up time 40 s	1/h	2.5	2.5	2.5	2.5	2.5
Heavy starting (CLASS 30E)						
Rated motor current I_M , $T_u = 40/50/60$ °C	A	13/11.5/10.5	18/15.9/13.8	25/22.3/19.6	26/23.6/21.2	29/26/23
ON period = 70%; motor protection activated						
• 300% I_M						
- Start-up time 20 s	1/h	7	7	7	7	7
- Start-up time 40 s	1/h	3	3	3	3	3
• 350% I_M						
- Start-up time 20 s	1/h	4	4	4	4	4
- Start-up time 40 s	1/h	1.8	1.8	1.8	1.8	1.8
Adjustable rated motor current I_M						
• Minimum/maximum	A	2.5/13	3.5/18	5/25	6.5/32	7.5/38
• Minimum/maximum in inside-delta circuits	A	4.3/22.5	6.1/31.1	8.7/43.3	11.3/55.4	13/65.8

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Type		3RW5524	3RW5525	3RW5526	3RW5527
Rated operational current I_e	A	47	63	77	93
Power electronics					
Load rating with rated operational current I_e					
IEC + UL/CSA, individual mounting at 40/50/60 °C, A AC-53a					
		47/41.6/36.2	63/55.5/50.5	77/68/62	93/82.5/75.5
Permissible rated motor current and starts/h					
Normal starting (CLASS 10A)					
Rated motor current I_M , $T_u = 40/50/60$ °C					
ON period = 70%; motor protection activated					
	A	47/41.6/36.2	63/55.5/50.5	77/68/62	93/82.5/75.5
• 300% I_M					
- Start-up time 5 s	1/h	43	43	43	43
- Start-up time 10 s	1/h	18	18	18	18
• 350% I_M					
- Start-up time 5 s	1/h	28	28	28	28
- Start-up time 10 s	1/h	10	10	10	10
Normal starting (CLASS 10E)					
Rated motor current I_M , $T_u = 40/50/60$ °C					
ON period = 70%; motor protection activated					
	A	47/41.6/36.2	63/55.5/50.5	77/68/62	93/82.5/75.5
• 300% I_M					
- Start-up time 5 s	1/h	21	21	21	21
- Start-up time 10 s	1/h	8	8	8	8
• 350% I_M					
- Start-up time 5 s	1/h	13	13	13	13
- Start-up time 10 s	1/h	4	4	4	4
Heavy starting (CLASS 20E)					
Rated motor current I_M , $T_u = 40/50/60$ °C					
ON period = 70%; motor protection activated					
	A	47/41.6/36.2	63/55.5/50.5	77/68/62	93/82.5/75.5
• 300% I_M					
- Start-up time 20 s	1/h	10	10	10	10
- Start-up time 40 s	1/h	4	4	4	4
• 350% I_M					
- Start-up time 20 s	1/h	7	7	7	7
- Start-up time 40 s	1/h	2.5	0	0	0
Heavy starting (CLASS 30E)					
Rated motor current I_M , $T_u = 40/50/60$ °C					
ON period = 70%; motor protection activated					
	A	43.4/38/34.4	53/48/43	68/62/56	82.5/75.5/65
• 300% I_M					
- Start-up time 20 s	1/h	7	7	7	7
- Start-up time 40 s	1/h	3	3	3	3
• 350% I_M					
- Start-up time 20 s	1/h	4	4	4	4
- Start-up time 40 s	1/h	1.8	1.8	1.8	1.8
Adjustable rated motor current I_M					
• Minimum/maximum	A	10/47	13/63	16/77	19/93
• Minimum/maximum in inside-delta circuits	A	17.3/81.4	22.5/109	27.7/133	32.9/161

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Type		3RW5534	3RW5535	3RW5536
Rated operational current I_e	A	113	143	171
Power electronics				
Load rating with rated operational current I_e				
IEC + UL/CSA, individual mounting at 40/50/60 °C, A AC-53a	A	113/101/89	143/128/118	171/153/141
Permissible rated motor current and starts/h				
Normal starting (CLASS 10A)				
Rated motor current I_M , $T_u = 40/50/60$ °C	A	113/101/89	143/128/118	171/153/141
ON period = 70%; motor protection activated				
• 300% I_M				
- Start-up time 5 s	1/h	43	43	35
- Start-up time 10 s	1/h	18	18	13
• 350% I_M				
- Start-up time 5 s	1/h	28	17	10
- Start-up time 10 s	1/h	10	4	0
Normal starting (CLASS 10E)				
Rated motor current I_M , $T_u = 40/50/60$ °C	A	113/101/89	143/128/118	171/153/141
ON period = 70%; motor protection activated				
• 300% I_M				
- Start-up time 5 s	1/h	21	21	14
- Start-up time 10 s	1/h	8	7	4
• 350% I_M				
- Start-up time 5 s	1/h	13	4	0
- Start-up time 10 s	1/h	4	0	0
Heavy starting (CLASS 20E)				
Rated motor current I_M , $T_u = 40/50/60$ °C	A	109/97/85	128/113/103	141/129/117
ON period = 70%; motor protection activated				
• 300% I_M				
- Start-up time 20 s	1/h	10	10	10
- Start-up time 40 s	1/h	4	4	4
• 350% I_M				
- Start-up time 20 s	1/h	7	6	6
- Start-up time 40 s	1/h	0	0	0
Heavy starting (CLASS 30E)				
Rated motor current I_M , $T_u = 40/50/60$ °C	A	89/81/74	108/98/88	117/105/93
ON period = 70%; motor protection activated				
• 300% I_M				
- Start-up time 20 s	1/h	7	7	7
- Start-up time 40 s	1/h	3	3	3
• 350% I_M				
- Start-up time 20 s	1/h	4	4	4
- Start-up time 40 s	1/h	1.8	1.8	1.8
Adjustable rated motor current I_M				
• Minimum/maximum	A	23/113	29/143	34/171
• Minimum/maximum in inside-delta circuits	A	39.8/195	50.2/247	58.9/296

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3RW55 Failsafe soft starters > General data **NEW**

Type		3RW5543	3RW5544	3RW5545	3RW5546	3RW5547	3RW5548
Rated operational current I_e	A	210	250	315	370	470	570
Power electronics							
Load rating with rated operational current I_e							
IEC + UL/CSA, individual mounting at 40/50/60 °C, A AC-53a	A	210/186/170	250/220/200	315/279/255	370/328/300	470/416/380	570/504/460
Permissible rated motor current and starts/h							
Normal starting (CLASS 10A)							
Rated motor current I_M , $T_u = 40/50/60$ °C	A	210/186/170	250/220/200	315/279/255	370/328/300	470/416/380	570/504/460
ON period = 70%; motor protection activated							
• 300% I_M							
- Start-up time 5 s	1/h	43	43	38	43	32	13
- Start-up time 10 s	1/h	13	18	14	18	13	3
• 350% I_M							
- Start-up time 5 s	1/h	14	28	19	28	19	4
- Start-up time 10 s	1/h	0	10	5	10	6	0.4
Normal starting (CLASS 10E)							
Rated motor current I_M , $T_u = 40/50/60$ °C	A	210/186/170	250/220/200	315/279/255	370/328/300	470/416/380	551/490/445
ON period = 70%; motor protection activated							
• 300% I_M							
- Start-up time 5 s	1/h	13	21	14	20	13	5
- Start-up time 10 s	1/h	2	8	4	8	3	--
• 350% I_M							
- Start-up time 5 s	1/h	0	13	5	12	6	1
- Start-up time 10 s	1/h	0	4	0	3	0.4	--
Heavy starting (CLASS 20E)							
Rated motor current I_M , $T_u = 40/50/60$ °C	A	162/146/130	200/180/160	231/207/183	258/230/202	272/254/236	284/262/240
ON period = 70%; motor protection activated							
• 300% I_M							
- Start-up time 20 s	1/h	10	10	10	10	10	10
- Start-up time 40 s	1/h	4	4	4	4	4	4
• 350% I_M							
- Start-up time 20 s	1/h	7	7	7	7	7	7
- Start-up time 40 s	1/h	2	2.5	2.5	2.5	2.5	2.5
Heavy starting (CLASS 30E)							
Rated motor current I_M , $T_u = 40/50/60$ °C	A	138/122/106	160/140/120	183/159/135	202/174/160	210/190/170	220/200/180
ON period = 70%; motor protection activated							
• 300% I_M							
- Start-up time 20 s	1/h	7	7	7	7	7	7
- Start-up time 40 s	1/h	3	3	3	3	3	3
• 350% I_M							
- Start-up time 20 s	1/h	4	4	4	4	4	4
- Start-up time 40 s	1/h	1.8	1.8	1.8	1.8	1.8	1.8
Adjustable rated motor current I_M							
• Minimum/maximum	A	42/210	50/250	63/315	74/370	94/470	114/570
• Minimum/maximum in inside-delta circuits	A	72.7/363	86.6/433	109.1/545	128.2/640	162.8/814	197.5/987

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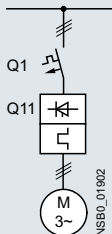
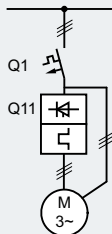
3RW55 Failsafe soft starters > General data

Motor feeders according to IEC with 3RV2/3VA motor starter protectors/circuit breakers (without semiconductor protection)

Type of coordination "1", CLASS 10,
short-circuit breaking capacity I_q in kA, [see table](#)

Note:

For general recommendations for constructing motor feeders
with soft starters, [see page 6/10](#).

												
Soft starters	Motor starter protectors for 400 V systems			Motor starter protectors for 480 V systems			Motor starter protectors for 400 V systems			Motor starter protectors for 480 V systems		
Q11	Q1	I_q	Q1	I_q	Q1	I_q	Q1	I_q	Q1	I_q	I_q	
Type	Type	kA	Type	kA	Type	kA	Type	kA	Type	kA	kA	
Type of coordination "1"	Inline circuit				Inside-delta circuit							
	3RW5513	3RV2032-4TA10	65	3RV2032-4TA10	18	3RV2032-4DA10	65	3RV2032-4DA10	18			
	3RW5514	3RV2032-4DA10	65	3RV2032-4DA10	15	3RV2032-4EA10	65	3RV2032-4EA10	15			
	3RW5515	3RV2032-4EA10	65	3RV2032-4EA10	15	3RV2032-4VA10	65	3RV2032-4VA10	15			
	3RW5516	3RV2032-4VA10	65	3RV2032-4VA10	10	3RV2032-4JA10	65	3RV2032-4JA10	10			
	3RW5517	3RV2032-4WA10	65	3RV2032-4WA10	10	3RV2032-4RA10	65	3RV2032-4RA10	10			
	3RW5524	3RV2032-4JA10	65	3RV2032-4JA10	10	3RV2032-4RA10	65	3RV2032-4RA10	10			
	3RW5525	3VA2163-7MN32-0AA0	65	3VA2163-7MN32-0AA0	20	3VA2110-7MN32-0AA0	65	3VA2110-7MN32-0AA0	20			
	3RW5526	3VA2110-7MN32-0AA0	65	3VA2110-7MN32-0AA0	20	3VA2216-7MN32-0AA0	65	3VA2216-7MN32-0AA0	20			
	3RW5527	3VA2216-7MN32-0AA0	15	3VA2216-7MN32-0AA0	10	3VA2220-7MN32-0AA0	15	3VA2220-7MN32-0AA0	10			
3RW5534	3VA2216-7MN32-0AA0	65	--	--	3VA2220-7MN32-0AA0	65	--	--				
3RW5535	3VA2220-7MN32-0AA0	65	--	--	3VA2325-7MN32-0AA0	65	--	--				
3RW5536	3VA2325-7MN32-0AA0	30	3VA2325-7MN32-0AA0	10	3VA2440-7MN32-0AA0	30	3VA2440-7MN32-0AA0	10				
3RW5543	3VA2325-7MN32-0AA0	65	3VA2325-7MN32-0AA0	65	3VA2440-7MN32-0AA0	65	3VA2440-7MN32-0AA0	65				
3RW5544	3VA2440-7MN32-0AA0	65	3VA2440-7MN32-0AA0	65	3VA2450-7MN32-0AA0	65	3VA2450-7MN32-0AA0	65				
3RW5545	3VA2440-7MN32-0AA0	65	3VA2440-7MN32-0AA0	65	3VA2580-6HN32-0AA0	65	3VA2580-6HN32-0AA0	65				
3RW5546	3VA2440-7MN32-0AA0	65	3VA2440-7MN32-0AA0	65	3VA2580-6HN32-0AA0	65	3VA2580-6HN32-0AA0	65				
3RW5547	3VA2450-7MN32-0AA0	65	3VA2450-7MN32-0AA0	65	3VA2510-6HN32-0AA0	65	3VA2510-6HN32-0AA0	65				
3RW5548	3VA2580-6HN32-0AA0	65	3VA2580-6HN32-0AA0	65	3VA2510-6HN32-0AA0	65	3VA2510-6HN32-0AA0	65				

Note:

The service factor or measurement inaccuracies have been taken into account, for example, for the selection of the specified motor starter protectors/circuit breakers; the specified short-circuit breaking capacities I_q in kA are covered by combination tests. Smaller motor starter protectors/circuit breakers than those specified can be used at any time as smaller ones trip more quickly in the event of a short circuit (unchanged short-circuit breaking capacity) and thus protect the soft starter in any case. The dimensioning of the short-circuit components must, however, be suitable for the connected three-phase motor and the line protection for the cables used.

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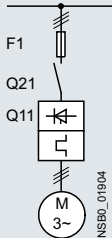
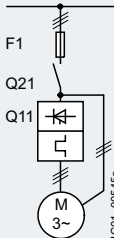
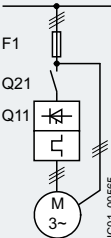
Motor feeders according to IEC with 3NA3 fuses

gG class full-range fuses for cable and line protection according to IEC 60269-2, without semiconductor protection

Type of coordination "1",
short-circuit breaking capacity $I_{qk} = 65 \text{ kA}$

Note:

For general recommendations for constructing motor feeders with soft starters, [see page 6/10](#).

					
Soft starters	gG class fuse	Line contactor (optional)	gG class fuse	Line contactor (optional)	
	for systems up to 480 V	for systems up to 480 V	for systems up to 480 V	for systems up to 480 V in the supply cable	for systems up to 480 V in the delta
Q11	F1	Q21	F1	Q21	Q21
Type	Type	Type	Type	Type	Type
Type of coordination "1"	Inline circuit		Inside-delta circuit		
3RW5513	3NA3820-6	3RT2025	3NA3820-6	3RT2027	3RT2025
3RW5514	3NA3820-6	3RT2026	3NA3820-6	3RT2027	3RT2026
3RW5515	3NA3822-6	3RT2027	3NA3822-6	3RT2036	3RT2027
3RW5516	3NA3824-6	3RT2035	3NA3824-6	3RT2037	3RT2035
3RW5517	3NA3824-6	3RT2035	3NA3824-6	3RT2038	3RT2035
3RW5524	3NA3824-6	3RT2036	3NA3824-6	3RT2046	3RT2036
3RW5525	3NA3830-6	3RT2037	3NA3830-6	3RT2047	3RT2037
3RW5526	3NA3132-6	3RT2038	3NA3132-6	3RT1055	3RT2038
3RW5527	3NA3136-6	3RT2046	3NA3136-6	3RT1056	3RT2046
3RW5534	3NA3244-6	3RT1054	3NA3244-6	3RT1064	3RT1054
3RW5535	3NA3244-6	3RT1055	3NA3244-6	3RT1065	3RT1055
3RW5536	3NA3365-6	3RT1056	3NA3365-6	3RT1066	3RT1056
3RW5543	2 x 3NA3354-6	3RT1064	2 x 3NA3354-6	3RT1075	3RT1064
3RW5544	2 x 3NA3354-6	3RT1065	2 x 3NA3354-6	3RT1076	3RT1065
3RW5545	2 x 3NA3365-6	3RT1075	2 x 3NA3365-6	3TF68	3RT1075
3RW5546	2 x 3NA3365-6	3RT1075	2 x 3NA3365-6	3TF69	3RT1075
3RW5547	2 x 3NA3365-6	3RT1076	2 x 3NA3365-6	3TF69	3RT1076
3RW5548	2 x 3NA3365-6	3TF68	2 x 3NA3365-6	--	3TF68

Note:

The specified short-circuit breaking capacities I_{qk} in kA are covered by combination tests. Smaller fuses than those specified can be used at any time as smaller ones trip more quickly in the event of a short circuit (unchanged short-circuit breaking capacity) and thus protect the soft starter in any case. The dimensioning of the short-circuit components must, however, be suitable for the connected three-phase motor and the line protection for the cables used.

Switching Devices – Soft Starters and Solid-State Switching Devices

SIRIUS 3RW Soft Starters
High Performance Soft Starters**NEW**

3RW55 Failsafe soft starters > General data

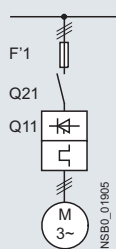
Motor feeders according to IEC with 3NE1 SITOP fuses

gR class full-range fuses for semiconductor protection, cable and line protection

Type of coordination "2",
short-circuit breaking capacity $I_{cs} = 65 \text{ kA}$

Note:

For general recommendations for constructing motor feeders with soft starters, [see page 6/10](#).



Soft starters	gG class fuse	Line contactor (optional)
Q11	for systems up to 480 V	for systems up to 480 V
Type	F'1	Q21
Type	Type	Type
Type of coordination "2"	Inline circuit	
3RW5513	3NE1815-0	3RT2025
3RW5514	3NE1802-0	3RT2026
3RW5515	3NE1817-0	3RT2027
3RW5516	3NE1818-0	3RT2035
3RW5517	3NE1820-0	3RT2035
3RW5524	3NE1021-2	3RT2036
3RW5525	3NE1022-0	3RT2037
3RW5526	3NE1224-0	3RT2038
3RW5527	3NE1224-0	3RT2046
3RW5534	3NE1225-0	3RT1054
3RW5535	3NE1227-0	3RT1055
3RW5536	3NE1230-0	3RT1056
3RW5543	3NE1230-2	3RT1064
3RW5544	3NE1331-0	3RT1065
3RW5545	3NE1334-2	3RT1075
3RW5546	3NE1334-2	3RT1075
3RW5547	3NE1436-2	3RT1076
3RW5548	3NE1437-2	3TF68

Note:

The specified short-circuit breaking capacities I_{cs} in kA are covered by combination tests. Smaller fuses than those specified can be used at any time as smaller ones trip more quickly in the event of a short circuit (unchanged short-circuit breaking capacity) and thus protect the soft starter in any case. The dimensioning of the short-circuit components must, however, be suitable for the connected three-phase motor and the line protection for the cables used.

In inside-delta circuits, a gR class full-range fuse could not provide the semiconductor protection of the delta-connected soft starter with a short-circuit breaking capacity that is adequate for practical use. In this case, we recommend using aR class partial-range fuses for semiconductor protection for type of coordination "2" ([see page 6/48](#)).

Switching Devices – Soft Starters and Solid-State Switching Devices

SIRIUS 3RW Soft Starters

High Performance Soft Starters

3RW55 Failsafe soft starters > General data **NEW**

Motor feeders according to IEC with 3NE8 / 3NE3 / 3NC3 fuses

aR class partial-range fuses for semiconductor protection

Type of coordination "2",
short-circuit breaking capacity $I_q = 65$ kA

Note:

For general recommendations for constructing motor feeders with soft starters, [see page 6/10](#).

Soft starters	gG class fuse	aR class fuse	Line contactor (optional)	gG class fuse	aR class fuse	Line contactor (optional)	
	for systems up to 480 V	for systems up to 480 V	for systems up to 480 V	for systems up to 480 V	for systems up to 480 V	for systems up to 480 V in the supply cable	for systems up to 480 V in the delta
Q11	F1	F3	Q21	F1	F3	Q21	Q21
Type	Type	Type	Type	Type	Type	Type	Type
Type of coordination "2"	Inline circuit			Inside-delta circuit			
3RW5513	3NA3820-6	3NE8017-1	3RT2025	3NA3820-6	3NE8017-1	3RT2027	3RT2025
3RW5514	3NA3820-6	3NE8020-1	3RT2026	3NA3820-6	3NE8020-1	3RT2027	3RT2026
3RW5515	3NA3822-6	3NE8021-1	3RT2027	3NA3822-6	3NE8021-1	3RT2036	3RT2027
3RW5516	3NA3824-6	3NE8022-1	3RT2035	3NA3824-6	3NE8022-1	3RT2037	3RT2035
3RW5517	3NA3824-6	3NE8024-1	3RT2035	3NA3824-6	3NE8024-1	3RT2038	3RT2035
3RW5524	3NA3824-6	3NE8024-1	3RT2036	3NA3824-6	3NE8024-1	3RT2046	3RT2036
3RW5525	3NA3830-6	3NE3227	3RT2037	3NA3830-6	3NE3227	3RT2047	3RT2037
3RW5526	3NA3132-6	3NE3227	3RT2038	3NA3132-6	3NE3227	3RT1055	3RT2038
3RW5527	3NA3136-6	3NE3227	3RT2046	3NA3136-6	3NE3227	3RT1056	3RT2046
3RW5534	3NA3244-6	3NE3231	3RT1054	3NA3244-6	3NE3231	3RT1064	3RT1054
3RW5535	3NA3244-6	3NE3233	3RT1055	3NA3244-6	3NE3233	3RT1065	3RT1055
3RW5536	3NA3365-6	3NE3334-0B	3RT1056	3NA3365-6	3NE3334-0B	3RT1066	3RT1056
3RW5543	2 x 3NA3354-6	3NE3333	3RT1064	2 x 3NA3354-6	3NE3333	3RT1075	3RT1064
3RW5544	2 x 3NA3354-6	3NE3335	3RT1065	2 x 3NA3354-6	3NE3335	3RT1076	3RT1065
3RW5545	2 x 3NA3365-6	--	3RT1075	2 x 3NA3365-6	--	3TF68	3RT1075
3RW5546	2 x 3NA3365-6	--	3RT1075	2 x 3NA3365-6	--	3TF69	3RT1075
3RW5547	2 x 3NA3365-6	3NE3340-8	3RT1076	2 x 3NA3365-6	3NE3340-8	3TF69	3RT1076
3RW5548	2 x 3NA3365-6	3NC3342-1U	3TF68	2 x 3NA3365-6	3NC3342-1U	--	3TF68

Note:

The specified short-circuit breaking capacities I_q in kA are covered by combination tests. Smaller fuses than those specified can be used at any time as smaller ones trip more quickly in the event of a short circuit (unchanged short-circuit breaking capacity) and thus protect the soft starter in any case. The dimensioning of the short-circuit components must, however, be suitable for the connected three-phase motor and the line protection for the cables used.

For CLASS 10 applications, as an alternative to the gG class full-range fuses for cable and line protection 3NA3 (F1), 3RV2/3VA motor starter protectors/circuit breakers can also be used, possibly with reduced short-circuit breaking capacity ([see page 6/45](#)). In these cases, optional line contactors can be dispensed with.

Switching Devices – Soft Starters and Solid-State Switching Devices

SIRIUS 3RW Soft Starters

High Performance Soft Starters

NEW

3RW55 Failsafe soft starters > General data

Reversing operation with reversing contactors

Note:

For general recommendations for constructing motor feeders with soft starters, [see page 6/10](#).

(For an example circuit, [see 3RW55 Equipment Manual, Appendix A.3](#))

Soft starters	Reversing contactor assembly for systems up to 480 V	For reversing contactor for systems up to 480 V
Q11 Type	Q21 / Q22 Type	Q21 / Q22 Type
3RW5513	3RA2325	3RT2025
3RW5514	3RA2326	3RT2026
3RW5515	3RA2327	3RT2027
3RW5516	3RA2335	3RT2035
3RW5517	3RA2335	3RT2035
3RW5524	3RA2336	3RT2036
3RW5525	3RA2337	3RT2037
3RW5526	3RA2338	3RT2038
3RW5527	3RA2346	3RT2046
3RW5534	---	3RT1054
3RW5535	---	3RT1055
3RW5536	---	3RT1056
3RW5543	---	3RT1064
3RW5544	---	3RT1065
3RW5545	---	3RT1075
3RW5546	---	3RT1075
3RW5547	---	3RT1076
3RW5548	---	3TF68

Switching Devices – Soft Starters and Solid-State Switching Devices

SIRIUS 3RW Soft Starters

High Performance Soft Starters

3RW55 Failsafe soft starters > Inline circuit

IE3/IE4 ready

NEW

Selection and ordering data

For normal starting (CLASS 10E)



3RW551.

3RW552.

3RW553.

3RW554.

At 40 °C			At 50 °C				SD ¹⁾	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
Operational current	Operating power for three-phase motors		Operational current	Rating [hp] for three-phase motors								
	At 230 V	At 400 V		At 200/208 V	At 220/230 V	At 460/480 V						
A	kW	kW	A	hp	hp	hp	d					
Operational voltage 200 ... 480 V												
13	3	5.5	11.5	2	3	7.5	5	3RW5513-□HF□4		1	1 unit	42S
18	4	7.5	15.9	3	5	10	5	3RW5514-□HF□4		1	1 unit	42S
25	5.5	11	22.3	5	7.5	15	5	3RW5515-□HF□4		1	1 unit	42S
32	7.5	15	28.4	7.5	10	20	5	3RW5516-□HF□4		1	1 unit	42S
38	11	18.5	33.5	10	10	20	5	3RW5517-□HF□4		1	1 unit	42S
47	11	22	41.6	10	10	30	5	3RW5524-□HF□4		1	1 unit	42S
63	18.5	30	55.5	15	20	40	5	3RW5525-□HF□4		1	1 unit	42S
77	22	37	68	20	25	50	5	3RW5526-□HF□4		1	1 unit	42S
93	22	45	82.5	25	30	60	5	3RW5527-□HF□4		1	1 unit	42S

Type of electrical connection for the control circuit

Screw terminals

Spring-loaded terminals

Control supply voltage

24 V AC/DC

110 ... 250 V AC

- ¹⁾ 3RW55 soft starter with screw terminals for operational voltage up to 480 V:
Standard delivery time SD = 1 day (d).

Note:

For the constraints for the motor outputs specified here, see page 6/8.

At 40 °C			At 50 °C				SD ¹⁾	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
Opera- tional current	Operating power for three-phase motors		Opera- tional current	Rating [hp] for three-phase motors								
	At 230 V	At 400 V		At 200/208 V	At 220/230 V	At 460/480 V						
A	kW	kW	A	hp	hp	hp	d					
Operational voltage 200 ... 480 V												
113	30	55	101	30	30	75	5	3RW5534-□HF□4		1	1 unit	42S
143	37	75	128	40	40	100	5	3RW5535-□HF□4		1	1 unit	42S
171	45	90	153	50	50	100	5	3RW5536-□HF□4		1	1 unit	42S
210	55	110	186	50	60	150	5	3RW5543-□HF□4		1	1 unit	42S
250	75	132	220	60	75	150	5	3RW5544-□HF□4		1	1 unit	42S
315	90	160	279	75	100	200	5	3RW5545-□HF□4		1	1 unit	42S
370	110	200	328	100	125	250	5	3RW5546-□HF□4		1	1 unit	42S
470	132	250	416	150	150	350	5	3RW5547-□HF□4		1	1 unit	42S
570	160	315	504	150	200	400	5	3RW5548-□HF□4		1	1 unit	42S

Type of electrical connection for the control circuit

Spring-loaded terminals

Screw terminals

Control supply voltage

24 V AC/DC

110 ... 250 V AC

- ¹⁾ 3RW55 soft starter with screw terminals for operational voltage up to 480 V:
Standard delivery time SD = 1 day (d).

Note:

For the constraints for the motor outputs specified here, see page 6/8.

Switching Devices – Soft Starters and Solid-State Switching Devices

SIRIUS 3RW Soft Starters

High Performance Soft Starters

NEW**IE3/IE4 ready****3RW55 Failsafe soft starters > Inside-delta circuit****Selection and ordering data****For normal starting (CLASS 10E)**

3RW551.

3RW552.

3RW553.

3RW554.

At 40 °C for inside-delta circuit			At 50 °C for inside-delta circuit				SD ¹⁾	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
Operational current	Operating power for three-phase motors		Operational current	Rating [hp] for three-phase motors								
	At 230 V	At 400 V		At 200/208 V	At 220/230 V	At 460/480 V						
A	kW	kW	A	hp	hp	hp	d					
Operational voltage 200 ... 480 V												
22.5	5.5	11	19.9	5	5	10	5	3RW5513-□HF□4		1	1 unit	42S
31.5	7.5	15	28	7.5	7.5	20	5	3RW5514-□HF□4		1	1 unit	42S
43.3	11	18.5	39	10	10	25	5	3RW5515-□HF□4		1	1 unit	42S
55.4	15	22	49	15	15	30	5	3RW5516-□HF□4		1	1 unit	42S
65.8	18.5	30	58	15	20	40	5	3RW5517-□HF□4		1	1 unit	42S
81.4	22	45	72	20	25	50	5	3RW5524-□HF□4		1	1 unit	42S
109	30	55	96	30	30	75	5	3RW5525-□HF□4		1	1 unit	42S
133	37	75	118	30	40	75	5	3RW5526-□HF□4		1	1 unit	42S
161	45	90	143	40	50	100	5	3RW5527-□HF□4		1	1 unit	42S

Type of electrical connection for the control circuit

Screw terminals

Spring-loaded terminals

Control supply voltage

24 V AC/DC

110 ... 250 V AC

- ¹⁾ 3RW55 soft starter with screw terminals for operational voltage up to 480 V:
Standard delivery time SD = 1 day (d).

Note:

For the constraints for the motor outputs specified here, [see page 6/8](#).

At 40 °C for inside-delta circuit			At 50 °C for inside-delta circuit				SD ¹⁾	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
Operational current	Operating power for three-phase motors		Operational current	Rating [hp] for three-phase motors								
	At 230 V	At 400 V		At 200/208 V	At 220/230 V	At 460/480 V						
A	kW	kW	A	hp	hp	hp	d					
Operational voltage 200 ... 480 V												
196	55	110	175	50	60	125	5	3RW5534-□HF□4		1	1 unit	42S
248	75	132	222	75	75	150	5	3RW5535-□HF□4		1	1 unit	42S
296	90	160	265	75	100	200	5	3RW5536-□HF□4		1	1 unit	42S
364	110	200	322	100	125	250	5	3RW5543-□HF□4		1	1 unit	42S
433	132	250	381	125	150	300	5	3RW5544-□HF□4		1	1 unit	42S
546	160	315	483	150	200	400	5	3RW5545-□HF□4		1	1 unit	42S
641	200	355	568	200	200	450	5	3RW5546-□HF□4		1	1 unit	42S
814	250	400	721	250	250	600	5	3RW5547-□HF□4		1	1 unit	42S
987	315	560	873	300	350	750	5	3RW5548-□HF□4		1	1 unit	42S

Type of electrical connection for the control circuit

Spring-loaded terminals

Screw terminals

Control supply voltage

24 V AC/DC

110 ... 250 V AC

- ¹⁾ 3RW55 soft starter with screw terminals for operational voltage up to 480 V:
Standard delivery time SD = 1 day (d).

Note:

For the constraints for the motor outputs specified here, [see page 6/8](#).

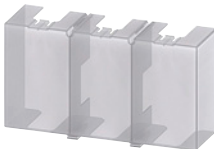
Switching Devices – Soft Starters and Solid-State Switching Devices

SIRIUS 3RW Soft Starters

High Performance Soft Starters

3RW55 Failsafe soft starters > Accessories

Selection and ordering data

	Product designation	Manufacturer's Article No. of the soft starter	Type of product	Application	SD	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
						d				
Fan covers										
 3RW5983-0FC00	Fan cover	3RW551 (1x), 3RW552 (2x), 3RW553 (2x)	--	--	▶	3RW5983-0FC00		1	1 unit	42S
		3RW554 (1x)	--	--	▶	3RW5984-0FC00		1	1 unit	42S
Terminal covers										
 3RW5983-0TC20	Terminal cover	3RW552 (2x), 3RW553 (2x)	--	--	▶	3RW5983-0TC20		1	1 unit	42S
		3RW554 (2x)	--	--	▶	3RW5984-0TC20		1	1 unit	42S
 3RW5984-0TC20										
Enclosure components										
 3RW5950-0GL20	Hinged cover	3RW55	Without cutout	--	▶	3RW5950-0GL20		1	1 unit	42S
Communication modules										
 3RW5980-0CS00	Communication module	3RW55	PROFINET High Feature with integral switch	--	▶	3RW5950-0CH00		1	1 unit	42S
			PROFINET Standard	--	▶	3RW5980-0CS00		1	1 unit	42S
			PROFIBUS	--	▶	3RW5980-0CP00		1	1 unit	42S
 3RW5980-0CE00			EtherNet/IP	--	▶	3RW5980-0CE00		1	1 unit	42S
 3RW5980-0CR00			Modbus RTU	--	▶	3RW5980-0CR00		1	1 unit	42S
			Modbus TCP	--	▶	3RW5980-0CT00		1	1 unit	42S

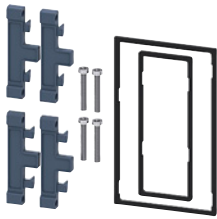
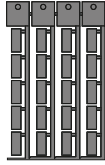
* You can order this quantity or a multiple thereof.
Illustrations are approximate

Switching Devices – Soft Starters and Solid-State Switching Devices

SIRIUS 3RW Soft Starters

High Performance Soft Starters

3RW55 Failsafe soft starters > Accessories

Product designation	Manufacturer's Article No. of the soft starter	Type of product	Application	SD	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
HMI modules									
	IP65 door mounting kit for HMI modules	3RW55	IP65	For HMI modules	▶ 3RW5980-0HD00		1	1 unit	42S
Connecting cables									
	HMI connection cable	3RW55	5 m, round 2.5 m, round 1.0 m, round 0.5 m, round	For door mounting	▶ 3RW5980-0HC60 ▶ 3UF7933-0BA00-0 ▶ 3UF7937-0BA00-0 ▶ 3UF7932-0BA00-0		1 1 1 1	1 unit 1 unit 1 unit 1 unit	42S 42J 42J 42J
Further accessories									
	Push-in lugs for wall mounting	--	Two lugs are required per device	For HMI modules and communication modules	3ZY1311-0AA00		1	10 units	41L
Blank labels									
	Unit labeling plates¹⁾	--	20 mm x 7 mm, titanium gray	For SIRIUS devices	3RT2900-1SB20		100	340 units	41B

¹⁾ PC labeling systems for individual inscription of unit labeling plates are available from: murrplastik Systemtechnik GmbH (see page 16/15).

Switching Devices – Soft Starters and Solid-State Switching Devices

SIRIUS 3RW Soft Starters

General Performance Soft Starters

3RW52 soft starters > General data

Overview

More information

Homepage, see www.siemens.com/soft-starter

Industry Mall, see www.siemens.com/product?3RW52

TIA Selection Tool Cloud (TST Cloud), see <https://www.siemens.com/tstcloud/?node=3rw52>

Industry Online Support (SIOS) topic page, see <https://support.industry.siemens.com/cs/ww/en/view/109747404>

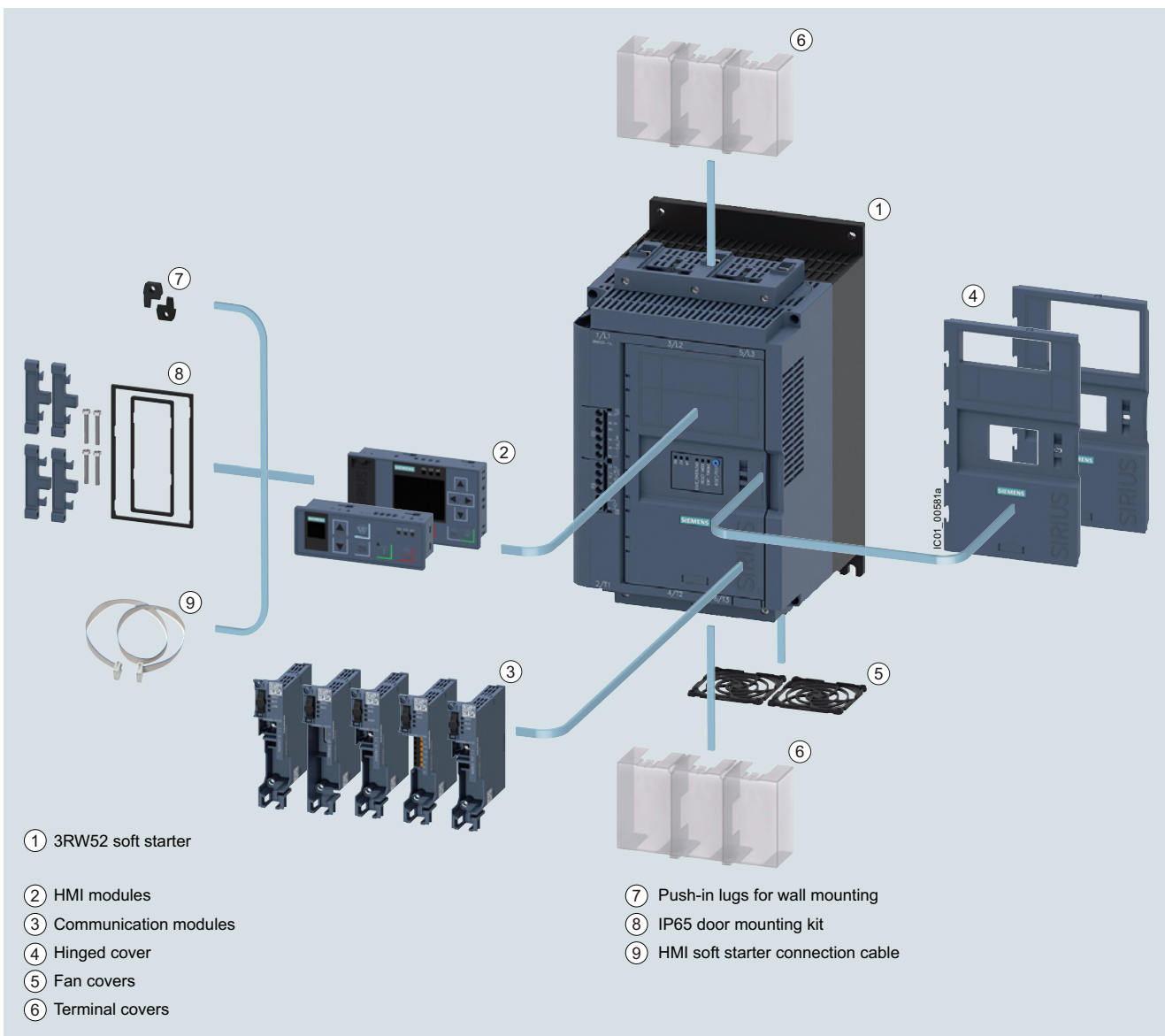
Simulation Tool for Soft Starters (STS), see page 6/8 or <https://support.industry.siemens.com/cs/ww/en/view/101494917>

SIRIUS Soft Starter ES (TIA Portal) for diagnostics, see page 14/5



SIRIUS 3RW52 General Performance soft starters are the ideal solution for standard applications. With ideal three-phase motor control, they cover the performance range from 5.5 kW to 560 kW (at 400 V).

Optional HMI modules, plug-in communication modules (PROFINET, PROFIBUS, EtherNet/IP and Modbus) and either an analog output or thermistor motor protection ensure maximum flexibility. With their modern hybrid switching technology, the SIRIUS 3RW52 soft starters offer efficient switching for long-term, energy-saving use.



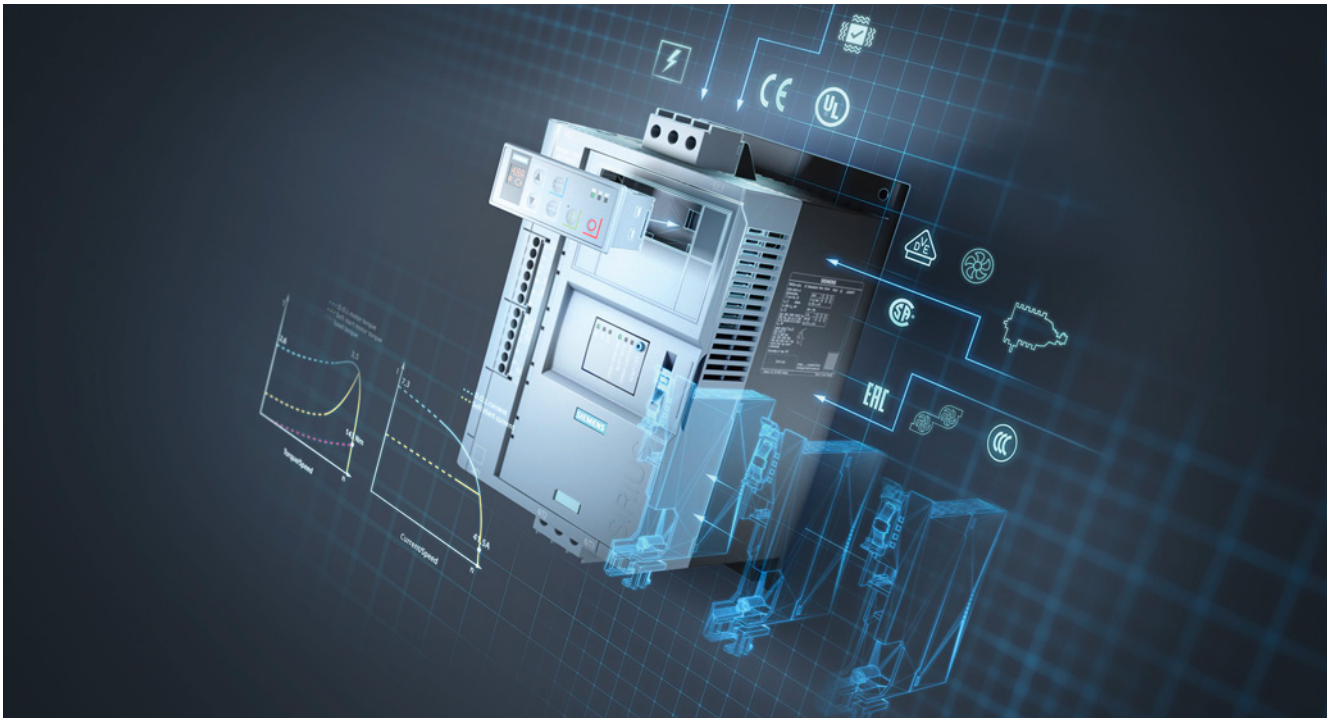
3RW52 General Performance soft starters with accessories (see page 6/70), for expansion with HMI module or communication module

Switching Devices – Soft Starters and Solid-State Switching Devices

SIRIUS 3RW Soft Starters General Performance Soft Starters

3RW52 soft starters > General data

Benefits



6

Product characteristics / function	Performance features / benefits
Hybrid switching devices and three-phase motor control	Minimum power loss and optimum/symmetrical motor control
TIA-Integration – communication modules and HMI modules optional	Efficient configuration and maximum flexibility in automation engineering
Soft Torque	Reduced mechanical loading and optimum pump stop
Parameterization using potentiometers	Simple and fast commissioning
Wide range for control supply and main voltage	Low variance, high system availability even with weak supply networks

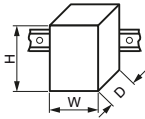
Switching Devices – Soft Starters and Solid-State Switching Devices

SIRIUS 3RW Soft Starters

General Performance Soft Starters

3RW52 soft starters > General data

Technical specifications

More information							
Technical specifications, see https://support.industry.siemens.com/cs/ww/en/ps/25100/td Equipment Manual "SIRIUS 3RW52 Soft Starter", see https://support.industry.siemens.com/cs/ww/en/view/109753751			FAQs, see https://support.industry.siemens.com/cs/ww/en/ps/25100/faq Simulation Tool for Soft Starters (STS), see page 6/8 or https://support.industry.siemens.com/cs/ww/en/view/101494917				
Type		3RW5213 3RW5214 3RW5215	3RW5216 3RW5217	3RW5224 3RW5225	3RW5226 3RW5227 3RW5234 3RW5235 3RW5236	3RW5243 3RW5244 3RW5245 3RW5246 3RW5247 3RW5248	
Installation/fixing/dimensions							
Width x height x depth			mm	170 × 275 × 152		185 × 306 × 203	210 × 393 × 203
Type of mounting		Screw fixing					
Mounting position		For vertical mounting surface can be rotated +/- 10° and tilted forward or backward					For vertical mounting surface can be rotated +/- 90°, for vertical mounting surface can be tilted +/- 22.5° forward or backward
Distance to be maintained with side-by-side mounting							
• Above		mm	100				
• At the side		mm	5				
• Below		mm	75				
Maximum installation altitude above sea level ¹⁾		m	5 000				
Degree of protection		IP20		IP00			
Ambient conditions							
Ambient temperature							
• During operation ²⁾		°C	-25 ... +60				
• During storage and transport		°C	-40 ... +80				
Environmental category according to IEC 60721							
• During operation		3K6 (no ice formation, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6					
• During storage		1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not enter the devices), 1M4					
• During transport		2K2, 2C1, 2S1, 2M2 (max. height of fall 0.3 m)					

¹⁾ Derating from 1 000 m, see characteristic curve on page 6/8.

²⁾ Note derating above 40 °C.

Switching Devices – Soft Starters and Solid-State Switching Devices

SIRIUS 3RW Soft Starters

General Performance Soft Starters

3RW52 soft starters > General data

Type		3RW52...C0.	3RW52...C1.
Control circuit/control			
Control supply voltage			
• At AC/DC, rated value	V	24/24	--/--
• At AC	V	--	110 ... 250
• Relative negative tolerance/relative positive tolerance with AC	%	-20/20	-15/10
• Relative negative tolerance/relative positive tolerance with DC	%	-20/20	--/--
Frequency of the control supply voltage			
• Relative negative tolerance/relative positive tolerance	Hz	50 ... 60	
	%	-10/10	
Type of overvoltage protection			
Varistors			
Type of short-circuit protection for control circuit¹⁾			
Fuse 4 A gG ($I_{cu} = 1 \text{ kA}$), fuse 6 A quick-response ($I_{cu} = 1 \text{ kA}$), MCB C1 ($I_{cu} = 600 \text{ A}$), MCB C6 ($I_{cu} = 300 \text{ A}$)			

¹⁾ Not included in scope of supply

Type		3RW52...C.4	3RW52...C.5
Power electronics			
Operational voltage, rated value			
• Relative negative tolerance/relative positive tolerance	V	200 ... 480	200 ... 600
	%	-15/10	
Operational voltage for inside-delta circuit, rated value			
• Relative negative tolerance/relative positive tolerance	V	200 ... 480	200 ... 600
	%	-15/10	
Operating frequency, rated value			
• Relative negative tolerance/relative positive tolerance	Hz	50 ... 60	
	%	-10/10	
Minimum load [% of I_M]¹⁾			
	%	15	
Maximum cable length between soft starter and motor			
	m	800	

¹⁾ Relative to the smallest adjustable I_e .

Switching Devices – Soft Starters and Solid-State Switching Devices

SIRIUS 3RW Soft Starters

General Performance Soft Starters

3RW52 soft starters > General data

Type		3RW5213	3RW5214	3RW5215	3RW5216	3RW5217
Rated operational current I_e	A	13	18	25	32	38
Power electronics						
Load rating with rated operational current I_e						
IEC + UL/CSA, individual mounting at 40/50/60 °C, A AC-53a	A	13/11.5/10.5	18/15.9/13.8	25/22.3/19.6	32/28.4/26	38/33.5/30.5
Permissible rated motor current and starts/h						
Normal starting (CLASS 10A)						
Rated motor current I_M , $T_u = 40/50/60$ °C	A	13/11.5/10.5	18/15.9/13.8	25/22.3/19.6	32/28.4/26	38/33.5/30.5
ON period = 70%; motor protection activated						
• 300% I_M						
- Start-up time 5 s	1/h	43	43	43	43	43
- Start-up time 10 s	1/h	18	18	18	18	18
• 350% I_M						
- Start-up time 5 s	1/h	28	28	28	28	28
- Start-up time 10 s	1/h	10	10	10	10	10
Normal starting (CLASS 10E)						
Rated motor current I_M , $T_u = 40/50/60$ °C	A	13/11.5/10.5	18/15.9/13.8	25/22.3/19.6	32/28.4/26	38/33.5/30.5
ON period = 70%; motor protection activated						
• 300% I_M						
- Start-up time 20 s	1/h	21	21	21	21	21
- Start-up time 40 s	1/h	8	8	8	8	8
• 350% I_M						
- Start-up time 20 s	1/h	13	13	13	13	13
- Start-up time 40 s	1/h	4	4	4	4	4
Heavy starting (CLASS 20E)						
Rated motor current I_M , $T_u = 40/50/60$ °C	A	13/11.5/10.5	18/15.9/13.8	25/22.3/19.6	29.6/27.2/23.6	33.5/30.5/27.5
ON period = 70%; motor protection activated						
• 300% I_M						
- Start-up time 20 s	1/h	10	10	10	10	10
- Start-up time 40 s	1/h	4	4	4	4	4
• 350% I_M						
- Start-up time 20 s	1/h	7	7	7	7	7
- Start-up time 40 s	1/h	2.5	2.5	2.5	2.5	2.5
Adjustable rated motor current I_M						
• Minimum/maximum	A	5.5/13	7.5/18	11.5/25	14/32	15.5/38
• Minimum/maximum in inside-delta circuits	A	9.5/22.5	13/31.2	19.9/43.3	24.2/55.4	26.8/65.8

Switching Devices – Soft Starters and Solid-State Switching Devices

SIRIUS 3RW Soft Starters

General Performance Soft Starters

3RW52 soft starters > General data

Type		3RW5224	3RW5225	3RW5226	3RW5227
Rated operational current I_e	A	47	63	77	93
Power electronics					
Load rating with rated operational current I_e					
IEC + UL/CSA, individual mounting at 40/50/60 °C, A AC-53a	A	47/41.6/36.2	63/55.5/50.5	77/68/62	93/82.5/75.5
Permissible rated motor current and starts/h					
Normal starting (CLASS 10A)					
Rated motor current I_M , $T_u = 40/50/60$ °C	A	47/41.6/36.2	63/55.5/50.5	77/68/62	93/82.5/75.5
ON period = 70%; motor protection activated					
• 300% I_M					
- Start-up time 5 s	1/h	43	43	43	43
- Start-up time 10 s	1/h	18	18	18	18
• 350% I_M					
- Start-up time 5 s	1/h	28	28	28	28
- Start-up time 10 s	1/h	10	10	10	10
Normal starting (CLASS 10E)					
Rated motor current I_M , $T_u = 40/50/60$ °C	A	47/41.6/36.2	63/55.5/50.5	77/68/62	93/82.5/75.5
ON period = 70%; motor protection activated					
• 300% I_M					
- Start-up time 20 s	1/h	21	21	21	21
- Start-up time 40 s	1/h	8	8	8	8
• 350% I_M					
- Start-up time 20 s	1/h	13	13	13	13
- Start-up time 40 s	1/h	4	4	4	4
Heavy starting (CLASS 20E)					
Rated motor current I_M , $T_u = 40/50/60$ °C	A	47/41.6/36.2	63/55.5/50.5	65/59/53	93/82.5/75.5
ON period = 70%; motor protection activated					
• 300% I_M					
- Start-up time 20 s	1/h	10	10	10	10
- Start-up time 40 s	1/h	4	3	4	4
• 350% I_M					
- Start-up time 20 s	1/h	7	4	7	7
- Start-up time 40 s	1/h	2	0	2.5	2.5
Adjustable rated motor current I_M					
• Minimum/maximum	A	20/47	25.5/63	32/77	40.5/93
• Minimum/maximum in inside-delta circuits	A	34.6/81.4	44.2/109	55.4/133	70.1/161

Switching Devices – Soft Starters and Solid-State Switching Devices

SIRIUS 3RW Soft Starters

General Performance Soft Starters

3RW52 soft starters > General data

Type		3RW5234	3RW5235	3RW5236
Rated operational current I_e	A	113	143	171
Power electronics				
Load rating with rated operational current I_e				
IEC + UL/CSA, individual mounting at 40/50/60 °C, AC-53a	A	113/101/89	143/128/118	171/153/141
Permissible rated motor current and starts/h				
Normal starting (CLASS 10A)				
Rated motor current I_M , $T_u = 40/50/60$ °C ON period = 70%; motor protection activated	A	113/101/89	143/128/118	171/153/141
• 300% I_M				
- Start-up time 5 s	1/h	43	43	43
- Start-up time 10 s	1/h	18	18	18
• 350% I_M				
- Start-up time 5 s	1/h	28	27	20
- Start-up time 10 s	1/h	10	8	4
Normal starting (CLASS 10E)				
Rated motor current I_M , $T_u = 40/50/60$ °C ON period = 70%; motor protection activated	A	113/101/89	139/127/116	158/146/129
• 300% I_M				
- Start-up time 20 s	1/h	21	21	21
- Start-up time 40 s	1/h	8	8	8
• 350% I_M				
- Start-up time 20 s	1/h	13	12	12
- Start-up time 40 s	1/h	4	1	1
Heavy starting (CLASS 20E)				
Rated motor current I_M , $T_u = 40/50/60$ °C ON period = 70%; motor protection activated	A	109/97/85	113/103/93	129/117/105
• 300% I_M				
- Start-up time 20 s	1/h	10	10	10
- Start-up time 40 s	1/h	4	4	4
• 350% I_M				
- Start-up time 20 s	1/h	7	7	7
- Start-up time 40 s	1/h	2.5	2.5	2.5
Adjustable rated motor current I_M				
• Minimum/maximum	A	53/113	68/143	81/171
• Minimum/maximum in inside-delta circuits	A	91.8/196	118/248	140/296

Switching Devices – Soft Starters and Solid-State Switching Devices

SIRIUS 3RW Soft Starters

General Performance Soft Starters

3RW52 soft starters > General data

Type		3RW5243	3RW5244	3RW5245	3RW5246	3RW5247	3RW5248
Rated operational current I_e	A	210	250	315	370	470	570
Power electronics							
Load rating with rated operational current I_e							
IEC + UL/CSA, individual mounting at 40/50/60 °C, A AC-53a		210/186/170	250/220/200	315/279/255	370/328/300	470/416/380	570/504/460
Permissible rated motor current and starts/h							
Normal starting (CLASS 10A)							
Rated motor current I_M , $T_u = 40/50/60$ °C		210/186/170	250/220/200	315/279/255	370/328/300	470/416/380	570/504/460
ON period = 70%; motor protection activated							
• 300% I_M							
- Start-up time 5 s	1/h	43	43	43	43	30	20
- Start-up time 10 s	1/h	18	18	14	18	11	6
• 350% I_M							
- Start-up time 5 s	1/h	28	28	16	28	17	9
- Start-up time 10 s	1/h	5	10	4	10	5	1
Normal starting (CLASS 10E)							
Rated motor current I_M , $T_u = 40/50/60$ °C		197/184/170	250/220/200	279/255/231	370/328/300	398/362/326	460/416/372
ON period = 70%; motor protection activated							
• 300% I_M							
- Start-up time 20 s	1/h	21	21	21	21	21	18
- Start-up time 40 s	1/h	8	8	8	8	8	7
• 350% I_M							
- Start-up time 20 s	1/h	12	13	12	13	13	11
- Start-up time 40 s	1/h	1	4	3	4	4	2
Heavy starting (CLASS 20E)							
Rated motor current I_M , $T_u = 40/50/60$ °C		162/146/130	200/180/160	195/171/147	258/230/202	272/236/218	284/262/240
ON period = 70%; motor protection activated							
• 300% I_M							
- Start-up time 20 s	1/h	10	10	10	10	10	10
- Start-up time 40 s	1/h	4	4	4	4	4	4
• 350% I_M							
- Start-up time 20 s	1/h	7	7	7	7	7	7
- Start-up time 40 s	1/h	2.5	2.5	2.5	2.5	2.5	2.5
Adjustable rated motor current I_M							
• Minimum/maximum		90/210	100/250	135/315	160/370	200/470	240/570
• Minimum/maximum in inside-delta circuits		156/364	173/433	234/546	277/641	346/814	416/987

Switching Devices – Soft Starters and Solid-State Switching Devices

SIRIUS 3RW Soft Starters

General Performance Soft Starters

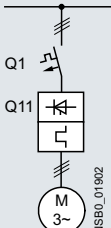
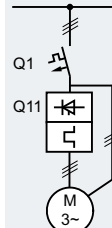
3RW52 soft starters > General data

Motor feeders according to IEC with 3RV2/3VA motor starter protectors/circuit breakers (without semiconductor protection)

Type of coordination "1", CLASS 10,
short-circuit breaking capacity I_q in kA, [see table](#)

Note:

For general recommendations for constructing motor feeders
with soft starters, [see page 6/10](#).

									
Soft starters		Motor starter protectors				Motor starter protectors			
		for 400 V systems		for 500 V systems		for 400 V systems		for 500 V systems	
Q11		Q1	I_q	Q1	I_q	Q1	I_q	Q1	I_q
Type		Type	kA	Type	kA	Type	kA	Type	kA
Type of coordination "1"	TOC 1	Inline circuit				Inside-delta circuit			
3RW5213		3RV2032-4TA10	65	3RV2032-4TA10	18	3RV2032-4DA10	65	3RV2032-4DA10	18
3RW5214		3RV2032-4DA10	65	3RV2032-4DA10	15	3RV2032-4EA10	65	3RV2032-4EA10	15
3RW5215		3RV2032-4EA10	65	3RV2032-4EA10	15	3RV2032-4VA10	65	3RV2032-4VA10	15
3RW5216		3RV2032-4VA10	65	3RV2032-4VA10	10	3RV2032-4JA10	65	3RV2032-4JA10	10
3RW5217		3RV2032-4WA10	65	3RV2032-4WA10	10	3RV2032-4RA10	65	3RV2032-4RA10	10
3RW5224		3RV2032-4JA10	65	3RV2032-4JA10	10	3RV2032-4RA10	65	3RV2032-4RA10	10
3RW5225		3VA2163-7MN32-0AA0	65	3VA2163-7MN32-0AA0	20	3VA2110-7MN32-0AA0	65	3VA2110-7MN32-0AA0	20
3RW5226		3VA2110-7MN32-0AA0	65	3VA2110-7MN32-0AA0	20	3VA2216-7MN32-0AA0	65	3VA2216-7MN32-0AA0	20
3RW5227		3VA2216-7MN32-0AA0	15	3VA2216-7MN32-0AA0	10	3VA2220-7MN32-0AA0	15	3VA2220-7MN32-0AA0	10
3RW5234		3VA2216-7MN32-0AA0	65	--	--	3VA2220-7MN32-0AA0	65	--	--
3RW5235		3VA2220-7MN32-0AA0	65	--	--	3VA2325-7MN32-0AA0	65	--	--
3RW5236		3VA2325-7MN32-0AA0	30	3VA2325-7MN32-0AA0	10	3VA2440-7MN32-0AA0	30	3VA2440-7MN32-0AA0	10
3RW5243		3VA2325-7MN32-0AA0	65	3VA2325-7MN32-0AA0	65	3VA2440-7MN32-0AA0	65	3VA2440-7MN32-0AA0	65
3RW5244		3VA2440-7MN32-0AA0	65	3VA2440-7MN32-0AA0	65	3VA2450-7MN32-0AA0	65	3VA2450-7MN32-0AA0	65
3RW5245		3VA2440-7MN32-0AA0	65	3VA2440-7MN32-0AA0	65	3VA2580-6HN32-0AA0	65	3VA2580-6HN32-0AA0	65
3RW5246		3VA2440-7MN32-0AA0	65	3VA2440-7MN32-0AA0	65	3VA2580-6HN32-0AA0	65	3VA2580-6HN32-0AA0	65
3RW5247		3VA2450-7MN32-0AA0	65	3VA2450-7MN32-0AA0	65	3VA2510-6HN32-0AA0	65	3VA2510-6HN32-0AA0	65
3RW5248		3VA2580-6HN32-0AA0	65	3VA2580-6HN32-0AA0	65	3VA2510-6HN32-0AA0	65	3VA2510-6HN32-0AA0	65

Note:

The service factor or measurement inaccuracies have been taken into account, for example, for the selection of the specified motor starter protectors/circuit breakers; the specified short-circuit breaking capacities I_q in kA are covered by combination tests. Smaller motor starter protectors/circuit breakers than those specified can be used at any time as smaller ones trip more quickly in the event of a short circuit (unchanged short-circuit breaking capacity) and thus protect the soft starter in any case. The dimensioning of the short-circuit components must, however, be suitable for the connected three-phase motor and the line protection for the cables used.

Switching Devices – Soft Starters and Solid-State Switching Devices

SIRIUS 3RW Soft Starters

General Performance Soft Starters

3RW52 soft starters > General data

Motor feeders according to IEC with 3NA3 fuses

gG class full-range fuses for cable and line protection according to IEC 60269-2, without semiconductor protection

Type of coordination "1",
short-circuit breaking capacity $I_{qk} = 65 \text{ kA}$

Note:

For general recommendations for constructing motor feeders with soft starters, [see page 6/10](#).

Soft starters	gG class fuse for systems up to 600 V	Line contactor (optional) for systems up to 480 V for systems up to 600 V		gG class fuse for systems up to 600 V	Line contactor (optional) for systems up to 480 V in the supply cable for systems up to 600 V in the supply cable		gG class fuse for systems up to 600 V	Line contactor (optional) for systems up to 480 V in the delta for systems up to 600 V in the delta	
Q11 Type	F1 Type	Q21 Type	Q21 Type	F1 Type	Q21 Type	Q21 Type	Q21 Type	Q21 Type	Q21 Type
Type of coordination "1"	Inline circuit			Inside-delta circuit					
3RW5213	3NA3820-6	3RT2025	3RT2025	3NA3820-6	3RT2027	3RT2035	3RT2025	3RT2025	3RT2025
3RW5214	3NA3820-6	3RT2026	3RT2027	3NA3820-6	3RT2027	3RT2037	3RT2026	3RT2027	3RT2027
3RW5215	3NA3822-6	3RT2027	3RT2037	3NA3822-6	3RT2036	3RT2037	3RT2027	3RT2037	3RT2037
3RW5216	3NA3824-6	3RT2035	3RT2037	3NA3824-6	3RT2037	3RT2038	3RT2035	3RT2037	3RT2037
3RW5217	3NA3824-6	3RT2035	3RT2037	3NA3824-6	3RT2038	3RT2046	3RT2035	3RT2037	3RT2037
3RW5224	3NA3824-6	3RT2036	3RT2037	3NA3824-6	3RT2046	3RT2047	3RT2036	3RT2037	3RT2037
3RW5225	3NA3830-6	3RT2037	3RT2046	3NA3830-6	3RT2047	3RT1054	3RT2037	3RT2046	3RT2046
3RW5226	3NA3132-6	3RT2038	3RT2046	3NA3132-6	3RT1055	3RT1055	3RT2038	3RT2046	3RT2046
3RW5227	3NA3136-6	3RT2046	3RT2047	3NA3136-6	3RT1056	3RT1056	3RT2046	3RT2047	3RT2047
3RW5234	3NA3244-6	3RT1054	3RT1054	3NA3244-6	3RT1064	3RT1064	3RT1054	3RT1054	3RT1054
3RW5235	3NA3244-6	3RT1055	3RT1055	3NA3244-6	3RT1065	3RT1065	3RT1055	3RT1055	3RT1055
3RW5236	3NA3365-6	3RT1056	3RT1064	3NA3365-6	3RT1066	3RT1075	3RT1056	3RT1064	3RT1064
3RW5243	2 x 3NA3354-6	3RT1064	3RT1064	2 x 3NA3354-6	3RT1075	3RT1075	3RT1064	3RT1064	3RT1064
3RW5244	2 x 3NA3354-6	3RT1065	3RT1065	2 x 3NA3354-6	3RT1076	3RT1076	3RT1065	3RT1065	3RT1065
3RW5245	2 x 3NA3365-6	3RT1075	3RT1075	2 x 3NA3365-6	3TF68	3TF68	3RT1075	3RT1075	3RT1075
3RW5246	2 x 3NA3365-6	3RT1075	3RT1075	2 x 3NA3365-6	3TF69	3TF69	3RT1075	3RT1075	3RT1075
3RW5247	2 x 3NA3365-6	3RT1076	3RT1276	2 x 3NA3365-6	3TF69	3TF69	3RT1076	3RT1276	3RT1276
3RW5248	2 x 3NA3365-6	3TF68	3TF68	2 x 3NA3365-6	--	--	3TF68	3TF68	3TF68

Note:

The specified short-circuit breaking capacities I_{qk} in kA are covered by combination tests. Smaller fuses than those specified can be used at any time as smaller ones trip more quickly in the event of a short circuit (unchanged short-circuit breaking capacity) and thus protect the soft starter in any case. The dimensioning of the short-circuit components must, however, be suitable for the connected three-phase motor and the line protection for the cables used.

Switching Devices – Soft Starters and Solid-State Switching Devices

SIRIUS 3RW Soft Starters

General Performance Soft Starters

3RW52 soft starters > General data

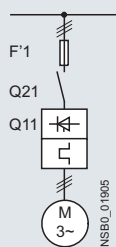
Motor feeders according to IEC with 3NE1 SITOP fuses

gR class full-range fuses for semiconductor protection, cable and line protection

Type of coordination "2",
short-circuit breaking capacity $I_{cs} = 65 \text{ kA}$

Note:

For general recommendations for constructing motor feeders with soft starters, [see page 6/10](#).



Soft starters	gG class fuse	Line contactor (optional)	
		for systems up to 480 V	for systems up to 600 V
Q11	F'1	Q21	Q21
Type	Type	Type	Type
Type of coordination "2"	Inline circuit		
3RW5213	3NE1815-0	3RT2025	3RT2025
3RW5214	3NE1802-0	3RT2026	3RT2027
3RW5215	3NE1817-0	3RT2027	3RT2037
3RW5216	3NE1818-0	3RT2035	3RT2037
3RW5217	3NE1820-0	3RT2035	3RT2037
3RW5224	3NE1021-2	3RT2036	3RT2037
3RW5225	3NE1022-0	3RT2037	3RT2046
3RW5226	3NE1224-0	3RT2038	3RT2046
3RW5227	3NE1224-0	3RT2046	3RT2047
3RW5234	3NE1225-0	3RT1054	3RT1054
3RW5235	3NE1227-0	3RT1055	3RT1055
3RW5236	3NE1230-0	3RT1056	3RT1064
3RW5243	3NE1230-2 ¹⁾	3RT1064	3RT1064
3RW5244	3NE1331-0	3RT1065	3RT1065
3RW5245	3NE1334-2	3RT1075	3RT1075
3RW5246	3NE1334-2	3RT1075	3RT1075
3RW5247	3NE1436-2	3RT1076	3RT1276
3RW5248	3NE1437-2	3TF68	3TF68

¹⁾ For systems up to 500 V.

Note:

The specified short-circuit breaking capacities I_{cs} in kA are covered by combination tests. Smaller fuses than those specified can be used at any time as smaller ones trip more quickly in the event of a short circuit (unchanged short-circuit breaking capacity) and thus protect the soft starter in any case. The dimensioning of the short-circuit components must, however, be suitable for the connected three-phase motor and the line protection for the cables used.

In inside-delta circuits, a gR class full-range fuse could not provide the semiconductor protection of the delta-connected soft starter with a short-circuit breaking capacity that is adequate for practical use. In this case, we recommend using aR class partial-range fuses for semiconductor protection for type of coordination "2" ([see page 6/65](#)).

Switching Devices – Soft Starters and Solid-State Switching Devices

SIRIUS 3RW Soft Starters

General Performance Soft Starters

3RW52 soft starters > General data

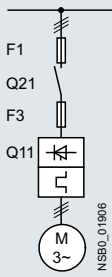
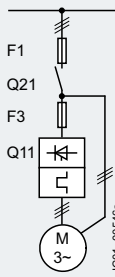
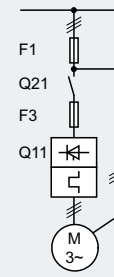
Motor feeders according to IEC with fuses 3NE8 / 3NE4 / 3NE3

aR class partial-range fuses for semiconductor protection

Type of coordination "2",
short-circuit breaking capacity $I_q = 65$ kA

Note:

For general recommendations for constructing motor feeders
with soft starters, [see page 6/10](#).

												
Soft starters	gG class fuse	aR class fuse	Line contactor (optional)		gG class fuse	aR class fuse	Line contactor (optional)		gG class fuse	aR class fuse	Line contactor (optional)	
	for systems up to 600 V	for systems up to 500 V	for systems up to 480 V	for systems up to 600 V	for systems up to 600 V	for systems up to 600 V	for systems up to 480 V in the supply cable	for systems up to 600 V in the supply cable	for systems up to 480 V in the delta	for systems up to 600 V in the delta		
Q11 Type	F1 Type	F3 Type	Q21 Type	Q21 Type	F1 Type	F3 Type	Q21 Type	Q21 Type	Q21 Type	Q21 Type		
Type of coordination "2"	Inline circuit				Inside-delta circuit							
3RW5213	3NA3820-6	3NE8017-1	3RT2025	3RT2025	3NA3820-6	3NE8017-1	3RT2027	3RT2035	3RT2025	3RT2025		
3RW5214	3NA3820-6	3NE8020-1	3RT2026	3RT2027	3NA3820-6	3NE8020-1	3RT2027	3RT2037	3RT2026	3RT2027		
3RW5215	3NA3822-6	3NE8021-1	3RT2027	3RT2037	3NA3822-6	3NE8021-1	3RT2036	3RT2037	3RT2027	3RT2037		
3RW5216	3NA3824-6	3NE8022-1	3RT2035	3RT2037	3NA3824-6	3NE8022-1	3RT2037	3RT2038	3RT2035	3RT2037		
3RW5217	3NA3824-6	3NE8024-1	3RT2035	3RT2037	3NA3824-6	3NE8024-1	3RT2038	3RT2046	3RT2035	3RT2037		
3RW5224	3NA3824-6	3NE8024-1	3RT2036	3RT2037	3NA3824-6	3NE8024-1	3RT2046	3RT2047	3RT2036	3RT2037		
3RW5225	3NA3830-6	3NE8024-1	3RT2037	3RT2046	3NA3830-6	3NE8024-1	3RT2047	3RT1054	3RT2037	3RT2046		
3RW5226	3NA3132-6	3NE8024-1	3RT2038	3RT2046	3NA3132-6	3NE8024-1	3RT1055	3RT1055	3RT2038	3RT2046		
3RW5227	3NA3136-6	3NE4124	3RT2046	3RT2047	3NA3136-6	3NE4124	3RT1056	3RT1056	3RT2046	3RT2047		
3RW5234	3NA3244-6	3NE3332-0B	3RT1054	3RT1054	3NA3244-6	3NE3332-0B	3RT1064	3RT1064	3RT1054	3RT1054		
3RW5235	3NA3244-6	3NE3334-0B	3RT1055	3RT1055	3NA3244-6	3NE3334-0B	3RT1065	3RT1065	3RT1055	3RT1055		
3RW5236	3NA3365-6	3NE3335	3RT1056	3RT1064	3NA3365-6	3NE3335	3RT1066	3RT1075	3RT1056	3RT1064		
3RW5243	2 x 3NA3354-6	3NE3333	3RT1064	3RT1064	2 x 3NA3354-6	3NE3333	3RT1075	3RT1075	3RT1064	3RT1064		
3RW5244	2 x 3NA3354-6	3NE3336	3RT1065	3RT1065	2 x 3NA3354-6	3NE3336	3RT1076	3RT1076	3RT1065	3RT1065		
3RW5245	2 x 3NA3365-6	3NE3336	3RT1075	3RT1075	2 x 3NA3365-6	3NE3336	3TF68	3TF68	3RT1075	3RT1075		
3RW5246	2 x 3NA3365-6	3NE3336	3RT1075	3RT1075	2 x 3NA3365-6	3NE3336	3TF69	3TF69	3RT1075	3RT1075		
3RW5247	2 x 3NA3365-6	3NE3340-8	3RT1076	3RT1276	2 x 3NA3365-6	3NE3340-8	3TF69	3TF69	3RT1076	3RT1276		
3RW5248	2 x 3NA3365-6	3NE3340-8	3TF68	3TF68	2 x 3NA3365-6	3NE3340-8	--	--	3TF68	3TF68		

Note:

The specified short-circuit breaking capacities I_q in kA are covered by combination tests. Smaller fuses than those specified can be used at any time as smaller ones trip more quickly in the event of a short circuit (unchanged short-circuit breaking capacity) and thus protect the soft starter in any case. The dimensioning of the short-circuit components must, however, be suitable for the connected three-phase motor and the line protection for the cables used.

For CLASS 10 applications, as an alternative to the gG class full-range fuses for cable and line protection 3NA3 (F1), 3RV2/3VA motor starter protectors/circuit breakers can also be used, possibly with reduced short-circuit breaking capacity ([see page 6/62](#)). In these cases, optional line contactors can be dispensed with.

Switching Devices – Soft Starters and Solid-State Switching Devices

SIRIUS 3RW Soft Starters

General Performance Soft Starters

3RW52 soft starters > Inline circuit **IE3/IE4 ready**

Selection and ordering data

For normal starting (CLASS 10A)



3RW521.



3RW522.



3RW523.



3RW524.

At 40 °C				At 50 °C					SD ¹⁾	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
Operational current	Operating power for three-phase motors			Operational current	Rating [hp] for three-phase motors									
	At 230 V	At 400 V	At 500 V		At 200/208 V	At 220/230 V	At 460/480 V	At 575/600 V						
A	kW	kW	kW	A	hp	hp	hp	hp	d					
Operational voltage 200 ... 480 V														
13	3	5.5	--	11.5	2	3	7.5	--	5	3RW5213-□□C□4		1	1 unit	42S
18	4	7.5	--	15.9	3	5	10	--	5	3RW5214-□□C□4		1	1 unit	42S
25	5.5	11	--	22.3	5	7.5	15	--	5	3RW5215-□□C□4		1	1 unit	42S
32	7.5	15	--	28.4	7.5	10	20	--	5	3RW5216-□□C□4		1	1 unit	42S
38	11	18.5	--	33.5	10	10	20	--	5	3RW5217-□□C□4		1	1 unit	42S
47	11	22	--	41.6	10	10	30	--	5	3RW5224-□□C□4		1	1 unit	42S
63	18.5	30	--	55.5	15	20	40	--	5	3RW5225-□□C□4		1	1 unit	42S
77	22	37	--	68	20	25	50	--	5	3RW5226-□□C□4		1	1 unit	42S
93	22	45	--	82.5	25	30	60	--	5	3RW5227-□□C□4		1	1 unit	42S

Type of electrical connection for the control circuit

Screw terminals

Spring-loaded terminals

Product function

Analog output

Thermistor motor protection

Control supply voltage

24 V AC/DC

110 ... 250 V AC

- ¹⁾ 3RW52 soft starter with screw terminals for operational voltage up to 480 V:
Standard delivery time SD = 1 day (d).

Note:

For the constraints for the motor outputs specified here, see page 6/8.

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At 40 °C				At 50 °C					SD ¹⁾	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
Operational current	Operating power for three-phase motors			Operational current	Rating [hp] for three-phase motors									
	At 230 V	At 400 V	At 500 V		At 200/208 V	At 220/230 V	At 460/480 V	At 575/600 V						
A	kW	kW	kW	A	hp	hp	hp	hp	d					
Operational voltage 200 ... 480 V														
113	30	55	--	101	30	30	75	--	5	3RW5234-□□C□4		1	1 unit	42S
143	37	75	--	128	40	40	100	--	5	3RW5235-□□C□4		1	1 unit	42S
171	45	90	--	153	50	50	100	--	5	3RW5236-□□C□4		1	1 unit	42S
210	55	110	--	186	60	60	150	--	5	3RW5243-□□C□4		1	1 unit	42S
250	75	132	--	220	60	75	150	--	5	3RW5244-□□C□4		1	1 unit	42S
315	90	160	--	279	75	100	200	--	5	3RW5245-□□C□4		1	1 unit	42S
370	110	200	--	328	100	125	250	--	5	3RW5246-□□C□4		1	1 unit	42S
470	132	250	--	416	150	150	350	--	5	3RW5247-□□C□4		1	1 unit	42S
570	160	315	--	504	150	200	400	--	5	3RW5248-□□C□4		1	1 unit	42S

Type of electrical connection for the control circuit

Spring-loaded terminals

Screw terminals

Product function

Analog output

Thermistor motor protection

Control supply voltage

24 V AC/DC

110 ... 250 V AC

- ¹⁾ 3RW52 soft starter with screw terminals for operational voltage up to 480 V:
Standard delivery time SD = 1 day (d).

Note:

For the constraints for the motor outputs specified here, see page 6/8.

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Switching Devices – Soft Starters and Solid-State Switching Devices

SIRIUS 3RW Soft Starters

General Performance Soft Starters

IE3/IE4 ready 3RW52 soft starters > Inline circuit

For normal starting (CLASS 10A)

3RW521.



3RW522.



3RW523.



3RW524.

At 40 °C				At 50 °C					SD ¹⁾	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
Operational current	Operating power for three-phase motors			Operational current	Rating [hp] for three-phase motors									
	At 230 V	At 400 V	At 500 V		At 200/208 V	At 220/230 V	At 460/480 V	At 575/600 V						
A	kW	kW	kW	A	hp	hp	hp	hp	d					
Operational voltage 200 ... 600 V														
13	3	5.5	7.5	11.5	2	3	7.5	10	5	3RW5213-□□C□5		1	1 unit	42S
18	4	7.5	11	15.9	3	5	10	10	5	3RW5214-□□C□5		1	1 unit	42S
25	5.5	11	15	22.3	5	7.5	15	20	5	3RW5215-□□C□5		1	1 unit	42S
32	7.5	15	18.5	28.4	7.5	10	20	25	5	3RW5216-□□C□5		1	1 unit	42S
38	11	18.5	22	33.5	10	10	20	30	5	3RW5217-□□C□5		1	1 unit	42S
47	11	22	30	41.6	10	10	30	40	5	3RW5224-□□C□5		1	1 unit	42S
63	18.5	30	37	55.5	15	20	40	50	5	3RW5225-□□C□5		1	1 unit	42S
77	22	37	45	68	20	25	50	60	5	3RW5226-□□C□5		1	1 unit	42S
93	22	45	55	82.5	25	30	60	75	5	3RW5227-□□C□5		1	1 unit	42S

Type of electrical connection for the control circuit

Screw terminals

Spring-loaded terminals

Product function

Analog output

Thermistor motor protection

Control supply voltage

24 V AC/DC

110 ... 250 V AC

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- ¹⁾ 3RW52 soft starter with screw terminals for operational voltage up to 600 V:
Standard delivery time SD = 2 days (d).

Note:

For the constraints for the motor outputs specified here, [see page 6/8](#).

At 40 °C				At 50 °C					SD ¹⁾	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
Operational current	Operating power for three-phase motors			Operational current	Rating [hp] for three-phase motors									
	At 230 V	At 400 V	At 500 V		At 200/208 V	At 220/230 V	At 460/480 V	At 575/600 V						
A	kW	kW	kW	A	hp	hp	hp	hp	d					
Operational voltage 200 ... 600 V														
113	30	55	75	101	30	30	75	100	5	3RW5234-□□C□5		1	1 unit	42S
143	37	75	90	128	40	40	100	125	5	3RW5235-□□C□5		1	1 unit	42S
171	45	90	110	153	50	50	100	150	5	3RW5236-□□C□5		1	1 unit	42S
210	55	110	132	186	60	60	150	150	5	3RW5243-□□C□5		1	1 unit	42S
250	75	132	160	220	60	75	150	200	5	3RW5244-□□C□5		1	1 unit	42S
315	90	160	200	279	75	100	200	250	5	3RW5245-□□C□5		1	1 unit	42S
370	110	200	250	328	100	125	250	300	5	3RW5246-□□C□5		1	1 unit	42S
470	132	250	315	416	150	150	350	450	5	3RW5247-□□C□5		1	1 unit	42S
570	160	315	355	504	150	200	400	500	5	3RW5248-□□C□5		1	1 unit	42S

Type of electrical connection for the control circuit

Spring-loaded terminals

Screw terminals

Product function

Analog output

Thermistor motor protection

Control supply voltage

24 V AC/DC

110 ... 250 V AC

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- ¹⁾ 3RW52 soft starter with screw terminals for operational voltage up to 600 V:
Standard delivery time SD = 2 days (d).

Note:

For the constraints for the motor outputs specified here, [see page 6/8](#).

Switching Devices – Soft Starters and Solid-State Switching Devices

SIRIUS 3RW Soft Starters

General Performance Soft Starters

3RW52 soft starters > Inside-delta circuit **IE3/IE4 ready**

Selection and ordering data

For normal starting (CLASS 10A)



3RW521.1



3RW522.2



3RW523.3



3RW524.4

At 40 °C for inside-delta circuit				At 50 °C for inside-delta circuit					SD ¹⁾	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	
Opera- tional current	Operating power for three-phase motors			Opera- tional current	Rating [hp] for three-phase motors										
	At 230 V	At 400 V	At 500 V		At 200/208 V	At 220/230 V	At 460/480 V	At 575/600 V							
	A	kW	kW		kW	A	hp	hp							hp
Operational voltage 200 ... 480 V															
22.5	5.5	11	--	19.9	5	5	10	--	5	3RW5213-□□C□4			1	1 unit	42S
31.5	7.5	15	--	28	7.5	7.5	20	--	5	3RW5214-□□C□4			1	1 unit	42S
43.3	11	18.5	--	39	10	10	25	--	5	3RW5215-□□C□4			1	1 unit	42S
55.4	15	22	--	49	15	15	30	--	5	3RW5216-□□C□4			1	1 unit	42S
65.8	18.5	30	--	58	15	20	40	--	5	3RW5217-□□C□4			1	1 unit	42S
81.4	22	45	--	72	20	25	50	--	5	3RW5224-□□C□4			1	1 unit	42S
109	30	55	--	96	30	30	75	--	5	3RW5225-□□C□4			1	1 unit	42S
133	37	75	--	118	30	40	75	--	5	3RW5226-□□C□4			1	1 unit	42S
161	45	90	--	143	40	50	100	--	5	3RW5227-□□C□4			1	1 unit	42S

Type of electrical connection for the control circuit

Screw terminals

Spring-loaded terminals

Product function

Analog output

Thermistor motor protection

Control supply voltage

24 V AC/DC

110 ... 250 V AC

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¹⁾ 3RW52 soft starter with screw terminals for operational voltage up to 480 V:
Standard delivery time SD = 1 day (d).

Note:

For the constraints for the motor outputs specified here, see page 6/8.

At 40 °C for inside-delta circuit				At 50 °C for inside-delta circuit					SD ¹⁾	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	
Opera- tional current	Operating power for three-phase motors			Opera- tional current	Rating [hp] for three-phase motors										
	At 230 V	At 400 V	At 500 V		At 200/208 V	At 220/230 V	At 460/480 V	At 575/600 V							
	A	kW	kW		kW	A	hp	hp							hp
Operational voltage 200 ... 480 V															
196	55	110	--	175	50	60	125	--	5	3RW5234-□□C□4		1	1 unit	42S	
248	75	132	--	222	75	75	150	--	5	3RW5235-□□C□4		1	1 unit	42S	
296	90	160	--	265	75	100	200	--	5	3RW5236-□□C□4		1	1 unit	42S	
364	110	200	--	322	100	125	250	--	5	3RW5243-□□C□4		1	1 unit	42S	
433	132	250	--	381	125	150	300	--	5	3RW5244-□□C□4		1	1 unit	42S	
546	160	315	--	483	150	200	400	--	5	3RW5245-□□C□4		1	1 unit	42S	
641	200	355	--	568	200	200	450	--	5	3RW5246-□□C□4		1	1 unit	42S	
814	250	400	--	721	250	250	600	--	5	3RW5247-□□C□4		1	1 unit	42S	
987	315	560	--	873	300	350	750	--	5	3RW5248-□□C□4		1	1 unit	42S	

Type of electrical connection for the control circuit

Spring-loaded terminals

Screw terminals

Product function

Analog output

Thermistor motor protection

Control supply voltage

24 V AC/DC

110 ... 250 V AC

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¹⁾ 3RW52 soft starter with screw terminals for operational voltage up to 480 V:
Standard delivery time SD = 1 day (d).

Note:

For the constraints for the motor outputs specified here, see page 6/8.

Switching Devices – Soft Starters and Solid-State Switching Devices

SIRIUS 3RW Soft Starters

General Performance Soft Starters

IE3/IE4 ready 3RW52 soft starters > Inside-delta circuit

For normal starting (CLASS 10A)


3RW521.1



3RW522.2



3RW523.3



3RW524.4

At 40 °C for inside-delta circuit				At 50 °C for inside-delta circuit				SD ¹⁾	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	
Operational current	Operating power for three-phase motors			Operational current	Rating [hp] for three-phase motors									
	At 230 V	At 400 V	At 500 V		At 200/208 V	At 220/230 V	At 460/480 V	At 575/600 V						
A	kW	kW	kW	A	hp	hp	hp	hp	d					
Operational voltage 200 ... 600 V														
22.5	5.5	11	15	19.9	5	5	10	15	5	3RW5213-□□C□5		1	1 unit	42S
31.5	7.5	15	18.5	28	7.5	7.5	20	25	5	3RW5214-□□C□5		1	1 unit	42S
43.3	11	18.5	22	39	10	10	25	30	5	3RW5215-□□C□5		1	1 unit	42S
55.4	15	22	30	49	15	15	30	40	5	3RW5216-□□C□5		1	1 unit	42S
65.8	18.5	30	37	58	15	20	40	50	5	3RW5217-□□C□5		1	1 unit	42S
81.4	22	45	45	72	20	25	50	60	5	3RW5224-□□C□5		1	1 unit	42S
109	30	55	55	96	30	30	75	75	5	3RW5225-□□C□5		1	1 unit	42S
133	37	75	90	118	30	40	75	100	5	3RW5226-□□C□5		1	1 unit	42S
161	45	90	110	143	40	50	100	125	5	3RW5227-□□C□5		1	1 unit	42S

Type of electrical connection for the control circuit

Screw terminals

Spring-loaded terminals

Product function

Analog output

Thermistor motor protection

Control supply voltage

24 V AC/DC

110 ... 250 V AC

¹⁾ 3RW52 soft starter with screw terminals for operational voltage up to 600 V:
Standard delivery time SD = 2 days (d).

Note:

For the constraints for the motor outputs specified here, [see page 6/8](#).

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At 40 °C for inside-delta circuit				At 50 °C for inside-delta circuit					SD ¹⁾	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
Operational current	Operating power for three-phase motors			Operational current	Rating [hp] for three-phase motors									
	At 230 V	At 400 V	At 500 V		At 200/208 V	At 220/230 V	At 460/480 V	At 575/600 V						
A	kW	kW	kW	A	hp	hp	hp	hp	d					
Operational voltage 200 ... 600 V														
196	55	110	132	175	50	60	125	150	5	3RW5234-□□C□5		1	1 unit	42S
248	75	132	160	222	75	75	150	200	5	3RW5235-□□C□5		1	1 unit	42S
296	90	160	200	265	75	100	200	250	5	3RW5236-□□C□5		1	1 unit	42S
364	110	200	250	322	100	125	250	300	5	3RW5243-□□C□5		1	1 unit	42S
433	132	250	315	381	125	150	300	350	5	3RW5244-□□C□5		1	1 unit	42S
546	160	315	355	483	150	200	400	500	5	3RW5245-□□C□5		1	1 unit	42S
641	200	355	450	568	200	200	450	600	5	3RW5246-□□C□5		1	1 unit	42S
814	250	400	500	721	250	250	600	800	5	3RW5247-□□C□5		1	1 unit	42S
987	315	560	630	873	300	350	750	950	5	3RW5248-□□C□5		1	1 unit	42S

Type of electrical connection for the control circuit

Spring-loaded terminals

Screw terminals

Product function

Analog output

Thermistor motor protection

Control supply voltage

24 V AC/DC

110 ... 250 V AC

¹⁾ 3RW52 soft starter with screw terminals for operational voltage up to 600 V:
Standard delivery time SD = 2 days (d).

Note:

For the constraints for the motor outputs specified here, [see page 6/8](#).

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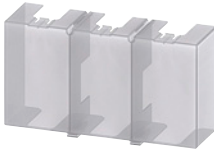
Switching Devices – Soft Starters and Solid-State Switching Devices

SIRIUS 3RW Soft Starters

General Performance Soft Starters

3RW52 soft starters > Accessories

Selection and ordering data

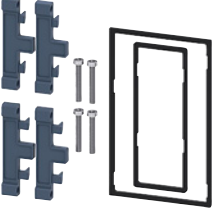
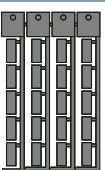
	Product designation	Manufacturer's Article No. of the soft starter	Type of product	Application	SD	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
Fan covers										
 3RW5983-0FC00	Fan cover	3RW5216/17 (1x), 3RW5226/27 (2x), 3RW523 (2x)	--	--	▶	3RW5983-0FC00		1	1 unit	42S
		3RW524 (1x)	--	--	▶	3RW5984-0FC00		1	1 unit	42S
Terminal covers										
 3RW5983-0TC20	Terminal cover	3RW522 (2x), 3RW523 (2x)	--	--	▶	3RW5983-0TC20		1	1 unit	42S
		3RW524 (2x)	--	--	▶	3RW5984-0TC20		1	1 unit	42S
 3RW5984-0TC20										
Enclosure components										
 3RW5950-0GL30	Hinged cover	3RW52	With cutout for High Feature HMI module	--	▶	3RW5950-0GL30		1	1 unit	42S
			With cutout for Standard HMI module	--	▶	3RW5950-0GL40		1	1 unit	42S
 3RW5950-0GL40										
Communication modules										
 3RW5980-0CS00	Communication module	3RW52	PROFINET Standard	--	▶	3RW5980-0CS00		1	1 unit	42S
			PROFIBUS	--	▶	3RW5980-0CP00		1	1 unit	42S
			EtherNet/IP	--	▶	3RW5980-0CE00		1	1 unit	42S
 3RW5980-0CR00			Modbus RTU	--	▶	3RW5980-0CR00		1	1 unit	42S
			Modbus TCP	--	▶	3RW5980-0CT00		1	1 unit	42S

Switching Devices – Soft Starters and Solid-State Switching Devices

SIRIUS 3RW Soft Starters

General Performance Soft Starters

3RW52 soft starters > Accessories

Product designation	Manufacturer's Article No. of the soft starter	Type of product	Application	SD	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
HMI modules					d				
 3RW5980-0HF00	HMI module	3RW52	High Feature	--	▶ 3RW5980-0HF00		1	1 unit	42S
			Standard	--	▶ 3RW5980-0HS00		1	1 unit	42S
 3RW5980-0HS00									
 3RW5980-0HD00	IP65 door mounting kit for HMI modules	3RW52	IP65	For HMI modules	▶ 3RW5980-0HD00		1	1 unit	42S
Connecting cables									
 3UF793.-0BA00-0	HMI connection cable	3RW52	5 m, round	For door mounting	▶ 3RW5980-0HC60		1	1 unit	42S
			2.5 m, round		▶ 3UF7933-0BA00-0		1	1 unit	42J
			1.0 m, round		▶ 3UF7937-0BA00-0		1	1 unit	42J
			0.5 m, round		▶ 3UF7932-0BA00-0		1	1 unit	42J
 3UF7931-0AA00-0			0.1 m, flat	for mounting in the device	▶ 3UF7931-0AA00-0		1	1 unit	42J
Further accessories									
 3ZY1311-0AA00	Push-in lugs for wall mounting	--	Two lugs are required per device	For HMI modules and communication modules	2 3ZY1311-0AA00		1	10 units	41L
Blank labels									
 3RT2900-1SB20	Unit labeling plates¹⁾	--	20 mm x 7 mm, titanium gray	For SIRIUS devices	20 3RT2900-1SB20		100	340 units	41B

¹⁾ PC labeling systems for individual inscription of unit labeling plates are available from: murrplastik Systemtechnik GmbH (see page 16/15).

Switching Devices – Soft Starters and Solid-State Switching Devices

SIRIUS 3RW Soft Starters

Basic Performance Soft Starters

3RW50 soft starters > General data

NEW

Overview

More information

Homepage, see www.siemens.com/soft-starter

Industry Mall, see www.siemens.com/product?3RW50

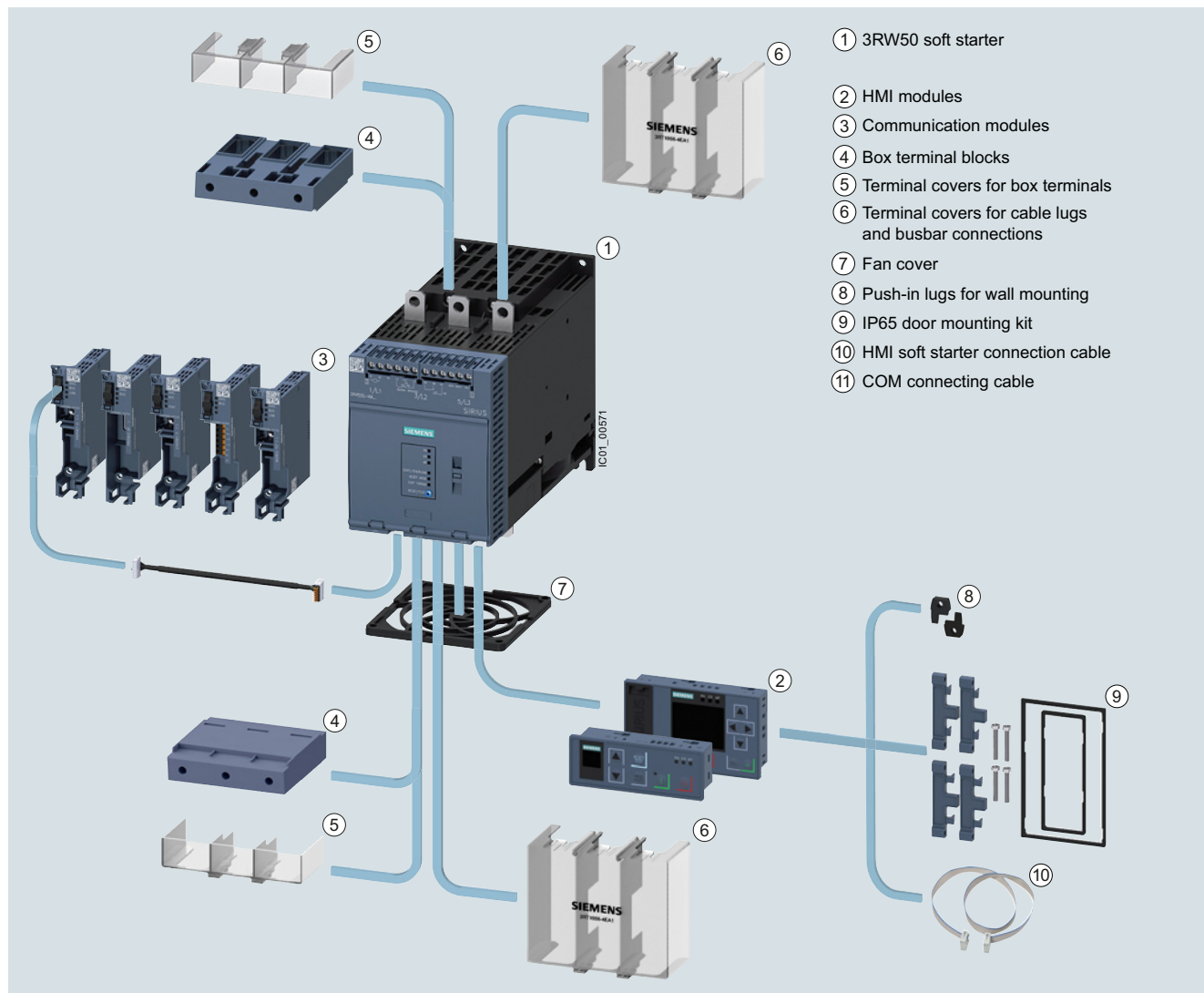
Industry Online Support (SIOS) topic page, see <https://support.industry.siemens.com/cs/ww/en/view/109747404>

Simulation Tool for Soft Starters (STS), see page 6/8 or <https://support.industry.siemens.com/cs/ww/en/view/101494917>
SIRIUS Soft Starter ES (TIA Portal) for diagnostics, see page 14/5



SIRIUS 3RW50 Basic Performance soft starters are the compact solution for standard applications. With two-phase motor control, they cover the performance range from 75 to 315 kW (at 400 V).

Optional HMI modules for installation in the control cabinet door, laterally mountable communication modules (PROFINET, PROFIBUS, EtherNet/IP and Modbus) and either an analog output or thermistor motor protection ensure maximum flexibility. With their modern hybrid switching technology, the SIRIUS 3RW50 soft starters offer efficient switching for long-term, energy-saving use.



3RW50 Basic Performance soft starters with accessories (see page 6/82), for expansion with HMI module or communication module

Switching Devices – Soft Starters and Solid-State Switching Devices

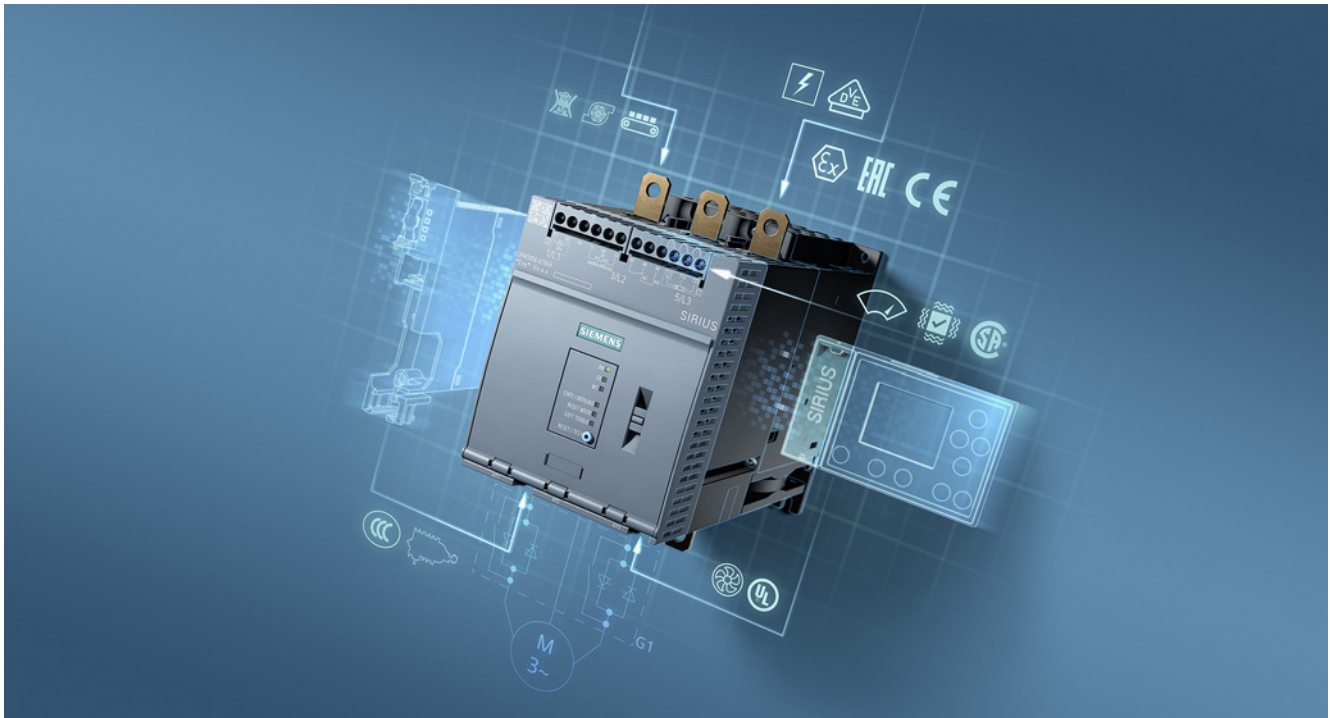
SIRIUS 3RW Soft Starters

Basic Performance Soft Starters

NEW

3RW50 soft starters > General data

Benefits



6

Product characteristics / function	Performance features / benefits
Hybrid switching devices and two-phase motor control	Minimum power loss and optimized motor control by avoiding DC components
Small and compact design	Space-saving, clearly arranged control panel layout
TIA-Integration – communication modules and HMI modules optional	Efficient configuration and maximum flexibility in automation engineering
Motor overload and intrinsic device protection without additional wiring	Adjustable trip classes, integrated diagnostics functions
Soft Torque	Reduced mechanical loading and optimum pump stop
Parameterization using potentiometers	Simple and fast commissioning
Wide range for control supply and main voltage	Low variance, high system availability even with weak supply networks
Certified according to ATEX/IECEx directive	Suitable for the starting of explosion-proof motors with "increased safety" type of protection

Switching Devices – Soft Starters and Solid-State Switching Devices

SIRIUS 3RW Soft Starters

Basic Performance Soft Starters

3RW50 soft starters > General data

NEW

Technical specifications

More information

Technical specifications, see
<https://support.industry.siemens.com/cs/ww/en/ps/25252/td>
 Equipment Manual "SIRIUS 3RW50 Soft Starters", see
<https://support.industry.siemens.com/cs/ww/en/view/109753750>

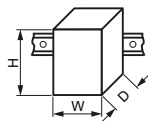
FAQs, see <https://support.industry.siemens.com/cs/ww/en/ps/25252/faq>
 Simulation Tool for Soft Starters (STS), see page 6/8 or
<https://support.industry.siemens.com/cs/ww/en/view/101494917>

Type

3RW5055
3RW5056
3RW5072
3RW5073
3RW5074
3RW5075
3RW5076
3RW5077

Installation/fixing/dimensions

Width x height x depth



mm

120 × 198 × 249

160 × 230 × 282

Type of mounting

Screw fixing

Mounting position

For vertical mounting surface can be rotated $\pm 90^\circ$,
 for vertical mounting surface can be tilted $\pm 22.5^\circ$ forward or backward

Distance to be maintained with side-by-side mounting

- Above mm 100
- At the side mm 5
- Below mm 75

Maximum installation altitude above sea level¹⁾

m

5 000

Degree of protection

IP00

Ambient conditions

Ambient temperature

- During operation²⁾ °C -25 ... +60
- During storage and transport °C -40 ... +80

Environmental category according to IEC 60721

- During operation 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6
- During storage 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not enter the devices), 1M4
- During transport 2K2, 2C1, 2S1, 2M2 (max. height of fall 0.3 m)

¹⁾ Derating from 1 000 m, see [characteristic curve on page 6/8](#).

²⁾ Note derating above 40 °C.

Switching Devices – Soft Starters and Solid-State Switching Devices

SIRIUS 3RW Soft Starters

Basic Performance Soft Starters

NEW

3RW50 soft starters > General data

Type		3RW50...-B0.	3RW50...-B1.
Control circuit/control			
Control supply voltage			
• At AC/DC, rated value	V	24/24	--/--
• At AC	V	--	110 ... 250
• Relative negative tolerance/relative positive tolerance with AC	%	-20/20	-15/10
• Relative negative tolerance/relative positive tolerance with DC	%	-20/20	--/--
Frequency of the control supply voltage			
• Relative negative tolerance/relative positive tolerance	Hz	50 ... 60	
	%	-10/10	
Type of overvoltage protection			
Varistors			
Type of short-circuit protection for control circuit¹⁾			
Fuse 4 A gG ($I_{cu} = 1 \text{ kA}$), fuse 6 A quick-response ($I_{cu} = 1 \text{ kA}$), MCB C1 ($I_{cu} = 600 \text{ A}$), MCB C6 ($I_{cu} = 300 \text{ A}$)			

¹⁾ Not included in scope of supply

Type		3RW50...-B.4	3RW50...-B.5
Power electronics			
Operational voltage, rated value			
• Relative negative tolerance/relative positive tolerance	V	200 ... 480	200 ... 600
	%	-15/10	
Operating frequency, rated value			
• Relative negative tolerance/relative positive tolerance	Hz	50 ... 60	
	%	-10/10	
Minimum load [% of I_M]¹⁾			
	%	15	
Maximum cable length between soft starter and motor			
	m	800	

¹⁾ Relative to the smallest adjustable I_E .

Switching Devices – Soft Starters and Solid-State Switching Devices

SIRIUS 3RW Soft Starters

Basic Performance Soft Starters

3RW50 soft starters > General data

NEW

Type		3RW5055	3RW5056				
Rated operational current I_e	A	143	171				
Power electronics							
Load rating with rated operational current I_e							
IEC + UL/CSA, individual mounting at 40/50/60 °C, A AC-53a	A	143/128/118	171/153/141				
Permissible rated motor current and starts/h							
Normal starting (CLASS 10A)							
Rated motor current I_M , $T_u = 40/50/60$ °C	A	143/128/118	171/153/141				
ON period = 70%; motor protection activated							
• 300% I_M							
- Start-up time 5 s	1/h	43	43				
- Start-up time 10 s	1/h	18	18				
• 350% I_M							
- Start-up time 5 s	1/h	28	28				
- Start-up time 10 s	1/h	10	9				
Normal starting (CLASS 10E)							
Rated motor current I_M , $T_u = 40/50/60$ °C	A	143/128/118	171/153/141				
ON period = 70%; motor protection activated							
• 300% I_M							
- Start-up time 20 s	1/h	21	21				
- Start-up time 40 s	1/h	8	8				
• 350% I_M							
- Start-up time 20 s	1/h	12	9				
- Start-up time 40 s	1/h	4	--				
Heavy starting (CLASS 20E)							
Rated motor current I_M , $T_u = 40/50/60$ °C	A	108/98/88	135/123/111				
ON period = 70%; motor protection activated							
• 300% I_M							
- Start-up time 20 s	1/h	10	10				
- Start-up time 40 s	1/h	4	4				
• 350% I_M							
- Start-up time 20 s	1/h	7	7				
- Start-up time 40 s	1/h	2.5	2.5				
Adjustable rated motor current I_M							
• Minimum/maximum	A	68/143	81/117				
Type		3RW5072	3RW5073	3RW5074	3RW5075	3RW5076	3RW5077
Rated operational current I_e	A	210	250	315	370	470	570
Power electronics							
Load rating with rated operational current I_e							
IEC + UL/CSA, individual mounting at 40/50/60 °C, A AC-53a	A	210/186/170	250/220/200	315/279/255	370/328/300	470/416/380	570/504/460
Permissible rated motor current and starts/h							
Normal starting (CLASS 10A)							
Rated motor current I_M , $T_u = 40/50/60$ °C	A	210/186/170	250/220/200	315/279/255	370/328/300	470/416/380	570/504/460
ON period = 70%; motor protection activated							
• 300% I_M							
- Start-up time 5 s	1/h	43	43	43	43	43	28
- Start-up time 10 s	1/h	18	18	18	18	18	11
• 350% I_M							
- Start-up time 5 s	1/h	28	28	28	28	28	16
- Start-up time 10 s	1/h	8	10	10	10	10	4
Normal starting (CLASS 10E)							
Rated motor current I_M , $T_u = 40/50/60$ °C	A	210/186/170	250/220/200	315/279/255	370/328/300	470/416/380	570/504/460
ON period = 70%; motor protection activated							
• 300% I_M							
- Start-up time 20 s	1/h	21	21	21	21	20	21
- Start-up time 40 s	1/h	8	8	8	8	7	8
• 350% I_M							
- Start-up time 20 s	1/h	8	13	12	13	12	13
- Start-up time 40 s	1/h	--	4	4	4	2	4
Heavy starting (CLASS 20E)							
Rated motor current I_M , $T_u = 40/50/60$ °C	A	162/146/130	200/180/160	219/195/171	258/230/202	272/254/218	284/262/240
ON period = 70%; motor protection activated							
• 300% I_M							
- Start-up time 20 s	1/h	10	10	10	10	10	10
- Start-up time 40 s	1/h	4	4	4	4	4	4
• 350% I_M							
- Start-up time 20 s	1/h	7	7	7	7	7	7
- Start-up time 40 s	1/h	2.5	2.5	2.5	2.5	2.5	2.5
Adjustable rated motor current I_M							
• Minimum/maximum	A	90/210	100/250	135/315	160/370	200/470	240/570

Switching Devices – Soft Starters and Solid-State Switching Devices

SIRIUS 3RW Soft Starters

Basic Performance Soft Starters

NEW

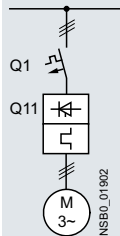
3RW50 soft starters > General data

Motor feeders according to IEC with 3VA motor starter protectors/circuit breakers (without semiconductor protection)

Type of coordination "1", CLASS 10,
short-circuit breaking capacity I_q in kA, [see table](#)

Note:

For general recommendations for constructing motor feeders
with soft starters, [see page 6/10](#).



Soft starters	Motor starter protectors			
	for 400 V systems		for 500 V systems	
Q11	Q1	I_q	Q1	I_q
Type	Type	kA	Type	kA
Type of coordination "1"	Inline circuit			
3RW5055	3VA2220-7MN32-0AA0	20	3VA2220-7MN32-0AA0	20
3RW5056	3VA2220-7MN32-0AA0	20	3VA2220-7MN32-0AA0	20
3RW5072	3VA2440-7MN32-0AA0	65	3VA2440-7MN32-0AA0	65
3RW5073	3VA2440-7MN32-0AA0	65	3VA2440-7MN32-0AA0	65
3RW5074	3VA2440-7MN32-0AA0	65	3VA2440-7MN32-0AA0	65
3RW5075	3VA2580-6HN32-0AA0	65	3VA2580-6HN32-0AA0	65
3RW5076	3VA2580-6HN32-0AA0	65	3VA2580-6HN32-0AA0	65
3RW5077	3VA2580-6HN32-0AA0	65	3VA2580-6HN32-0AA0	65

Note:

The service factor or measurement inaccuracies have been taken into account, for example, for the selection of the specified motor starter protectors/circuit breakers; the specified short-circuit breaking capacities I_q in kA are covered by combination tests. Smaller motor starter protectors/circuit breakers than those specified can be used at any time as smaller ones trip more quickly in the event of a short circuit (unchanged short-circuit breaking capacity) and thus protect the soft starter in any case. The dimensioning of the short-circuit components must, however, be suitable for the connected three-phase motor and the line protection for the cables used.

Switching Devices – Soft Starters and Solid-State Switching Devices

SIRIUS 3RW Soft Starters

Basic Performance Soft Starters

3RW50 soft starters > General data

NEW

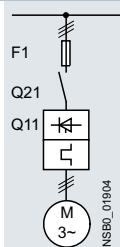
Motor feeders according to IEC with 3NA3 fuses

gG class full-range fuses for cable and line protection according to IEC 60269-2, without semiconductor protection

Type of coordination "1",
short-circuit breaking capacity $I_{cs} = 65 \text{ kA}$

Note:

For general recommendations for constructing motor feeders with soft starters, [see page 6/10](#).



Soft starters	gG class fuse		Line contactor (optional)	
	for systems up to 600 V	for systems up to 480 V	for systems up to 600 V	for systems up to 600 V
Q11	F1	Q21	Q21	Q21
Type	Type	Type	Type	Type
Type of coordination "1"	TgC 1 Inline circuit			
3RW5055	3NA3244-6	3RT1055	3RT1055	3RT1055
3RW5056	3NA3244-6	3RT1056	3RT1056	3RT1064
3RW5072	2 x 3NA3354-6	3RT1064	3RT1064	3RT1064
3RW5073	2 x 3NA3354-6	3RT1065	3RT1065	3RT1065
3RW5074	2 x 3NA3365-6	3RT1075	3RT1075	3RT1075
3RW5075	2 x 3NA3365-6	3RT1075	3RT1075	3RT1075
3RW5076	2 x 3NA3365-6	3RT1076	3RT1076	3RT1076
3RW5077	2 x 3NA3365-6	3TF68	3TF68	3TF68

Note:

The specified short-circuit breaking capacities I_{cs} in kA are covered by combination tests. Smaller fuses than those specified can be used at any time as smaller ones trip more quickly in the event of a short circuit (unchanged short-circuit breaking capacity) and thus protect the soft starter in any case. The dimensioning of the short-circuit components must, however, be suitable for the connected three-phase motor and the line protection for the cables used.

Switching Devices – Soft Starters and Solid-State Switching Devices

SIRIUS 3RW Soft Starters

Basic Performance Soft Starters

NEW

3RW50 soft starters > General data

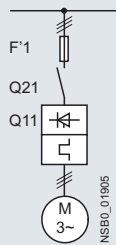
Motor feeders according to IEC with 3NE1 SITOP fuses

gR class full-range fuses for semiconductor protection, cable and line protection

Type of coordination "2",
short-circuit breaking capacity $I_q = 65 \text{ kA}$

Note:

For general recommendations for constructing motor feeders with soft starters, [see page 6/10](#).



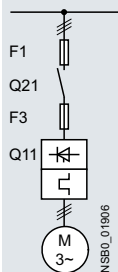
Soft starters	gG class fuse	Line contactor (optional)	
		for systems up to 480 V	for systems up to 600 V
Q11	F'1	Q21	Q21
Type	Type	Type	Type
Type of coordination "2"	Inline circuit		
3RW5055	3NE1227-0	3RT1055	3RT1055
3RW5056	3NE1230-0	3RT1056	3RT1064
3RW5072	3NE1230-2	3RT1064	3RT1064
3RW5073	3NE1331-0	3RT1065	3RT1065
3RW5074	3NE1333-2	3RT1075	3RT1075
3RW5075	3NE1334-2	3RT1075	3RT1075
3RW5076	3NE1436-2	3RT1076	3RT1076
3RW5077	3NE1437-2	3TF68	3TF68

Note:

The specified short-circuit breaking capacities I_q in kA are covered by combination tests. Smaller fuses than those specified can be used at any time as smaller ones trip more quickly in the event of a short circuit (unchanged short-circuit breaking capacity) and thus protect the soft starter in any case. The dimensioning of the short-circuit components must, however, be suitable for the connected three-phase motor and the line protection for the cables used.

NEW

For general recommendations for constructing motor feeders with soft starters, [see page 6/10](#).



Soft starters	gG class fuse		aR class fuse		Line contactor (optional)			
	for systems up to 600 V		for systems up to 600 V		for systems up to 480 V		for systems up to 600 V	
Q11	F1		F3		Q21		Q21	
Type	Type		Type		Type		Type	
Type of coordination "2"	ToC 2	Inline circuit						
3RW5055	3NA3244-6		3NE3334-0B		3RT1055		3RT1055	
3RW5056	3NA3244-6		3NE3335		3RT1056		3RT1064	
3RW5072	2 x 3NA3354-6		3NE3333		3RT1064		3RT1064	
3RW5073	2 x 3NA3354-6		3NE3335		3RT1065		3RT1065	
3RW5074	2 x 3NA3365-6		3NE3335		3RT1075		3RT1075	
3RW5075	2 x 3NA3365-6		3NE3336		3RT1075		3RT1075	
3RW5076	2 x 3NA3365-6		3NE3340-8		3RT1076		3RT1076	
3RW5077	2 x 3NA3365-6		3NE3340-8		3TF68		3TF68	

For CLASS 10 applications, as an alternative to the gG class full-range fuses for cable and line protection 3NA3 (F1), 3VA circuit breakers can also be used, possibly with reduced short-circuit breaking capacity (see page 6/77). In these cases, optional line contactors can be dispensed with.

Switching Devices – Soft Starters and Solid-State Switching Devices

SIRIUS 3RW Soft Starters

Basic Performance Soft Starters

NEW**IE3/IE4 ready****3RW50 soft starters > Inline circuit**

Selection and ordering data

For normal starting (CLASS 10E)



3RW5055



3RW5075

At 40 °C				At 50 °C				Size	SD ¹⁾	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
Operational current	Operating power for three-phase motors			Operational current	Rating [hp] for three-phase motors									
	At 230 V	At 400 V	At 500 V		At 200/208 V	At 220/230 V	At 460/480 V	At 575/600 V						
A	kW	kW	kW	A	hp	hp	hp	hp	d					
Operational voltage 200 ... 480 V														
143	37	75	90	128	30	30	75	75	S6	5	3RW5055-□□B□4	1	1 unit	42S
171	45	90	110	153	30	40	75	100	S6	5	3RW5056-□□B□4	1	1 unit	42S
210	55	110	132	186	40	50	100	125	S12	5	3RW5072-□□B□4	1	1 unit	42S
250	75	132	160	220	50	60	125	150	S12	5	3RW5073-□□B□4	1	1 unit	42S
315	90	160	200	279	60	75	150	200	S12	5	3RW5074-□□B□4	1	1 unit	42S
370	110	200	250	328	75	100	200	250	S12	5	3RW5075-□□B□4	1	1 unit	42S
470	132	250	315	416	100	125	250	300	S12	5	3RW5076-□□B□4	1	1 unit	42S
570	160	315	355	504	125	150	300	400	S12	5	3RW5077-□□B□4	1	1 unit	42S

Type of electrical connection for the control circuit

Spring-loaded terminals

Screw terminals

Product function

Analog output

Thermistor motor protection

Control supply voltage

24 V AC/DC

110 ... 250 V AC

- ¹⁾ 3RW50 soft starter with screw terminals for operational voltage up to 480 V:
Standard delivery time SD = 1 day (d).

Note:

For the constraints for the motor outputs specified here, see [page 6/8](#).

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At 40 °C				At 50 °C				Size	SD ¹⁾	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
Operational current	Operating power for three-phase motors			Operational current	Rating [hp] for three-phase motors									
	At 230 V	At 400 V	At 500 V		At 200/208 V	At 220/230 V	At 460/480 V	At 575/600 V						
A	kW	kW	kW	A	hp	hp	hp	hp	d					
Operational voltage 200 ... 600 V														
143	37	75	90	128	30	30	75	75	S6	5	3RW5055-□□B□5	1	1 unit	42S
171	45	90	110	153	30	40	75	100	S6	5	3RW5056-□□B□5	1	1 unit	42S
210	55	110	132	186	40	50	100	125	S12	5	3RW5072-□□B□5	1	1 unit	42S
250	75	132	160	220	50	60	125	150	S12	5	3RW5073-□□B□5	1	1 unit	42S
315	90	160	200	279	60	75	150	200	S12	5	3RW5074-□□B□5	1	1 unit	42S
370	110	200	250	328	75	100	200	250	S12	5	3RW5075-□□B□5	1	1 unit	42S
470	132	250	315	416	100	125	250	300	S12	5	3RW5076-□□B□5	1	1 unit	42S
570	160	315	355	504	125	150	300	400	S12	5	3RW5077-□□B□5	1	1 unit	42S

Type of electrical connection for the control circuit

Spring-loaded terminals

Screw terminals

Product function

Analog output

Thermistor motor protection

Control supply voltage

24 V AC/DC

110 ... 250 V AC

- ¹⁾ 3RW50 soft starter with screw terminals for operational voltage up to 600 V:
Standard delivery time SD = 2 days (d).

Note:

For the constraints for the motor outputs specified here, see [page 6/8](#).

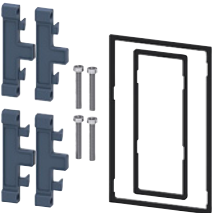
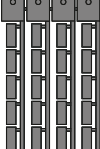
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Switching Devices – Soft Starters and Solid-State Switching Devices

SIRIUS 3RW Soft Starters

Basic Performance Soft Starters

3RW50 soft starters > Accessories

Product designation	Manufacturer's Article No. of the soft starter	Type of product	Application	SD	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
HMI modules									
	HMI module	3RW50	High Feature	--	▶ 3RW5980-0HF00		1	1 unit	42S
3RW5980-0HF00									
			Standard	--	▶ 3RW5980-0HS00		1	1 unit	42S
3RW5980-0HS00									
	IP65 door mounting kit for HMI modules	3RW50	IP65	For HMI modules	▶ 3RW5980-0HD00		1	1 unit	42S
3RW5980-0HD00									
Connecting cables									
	HMI connection cable	3RW50	5 m, round	For door mounting	▶ 3RW5980-0HC60		1	1 unit	42S
			2.5 m, round		▶ 3UF7933-0BA00-0		1	1 unit	42J
			1.0 m, round		▶ 3UF7937-0BA00-0		1	1 unit	42J
			0.5 m, round		▶ 3UF7932-0BA00-0		1	1 unit	42J
3UF793.-0BA00-0									
Further accessories									
	Push-in lugs for wall mounting	--	Two lugs are required per device	For HMI modules and communication modules	2 3ZY1311-0AA00		1	10 units	41L
3ZY1311-0AA00									
Blank labels									
	Unit labeling plates¹⁾	--	20 mm x 7 mm, titanium gray	For SIRIUS devices	20 3RT2900-1SB20		100	340 units	41B
3RT2900-1SB20									

¹⁾ PC labeling systems for individual inscription of unit labeling plates are available from: murrplastik Systemtechnik GmbH (see page 16/15).

Switching Devices – Soft Starters and Solid-State Switching Devices

SIRIUS 3RW Soft Starters

Basic Performance Soft Starters

3RW40 soft starters > General data

Overview

More information

Homepage, see www.siemens.com/soft-starter

Industry Mall, see www.siemens.com/product?3RW40

TIA Selection Tool Cloud (TST Cloud), see

<https://www.siemens.com/tstcloud/?node=3rw40>

Simulation Tool for Soft Starters (STS), see page 6/8 or

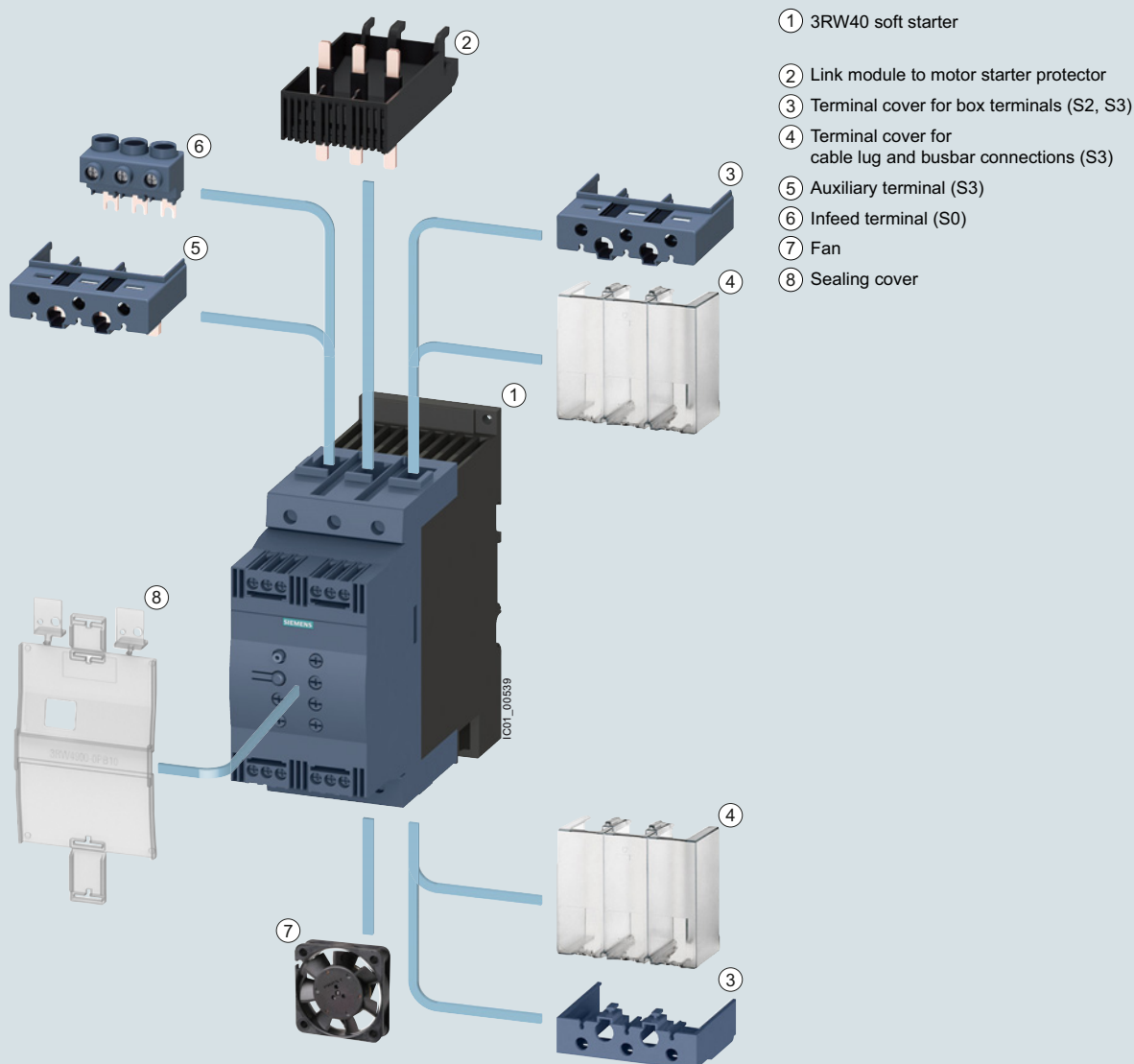
<https://support.industry.siemens.com/cs/ww/en/view/101494917>



The SIRIUS 3RW40 Basic Performance soft starters are suitable for soft starting and stopping of three-phase asynchronous motors.

Thanks to two-phase control, not only is the current kept at minimum values in all three phases throughout the entire starting time, but disturbing direct current components are also eliminated. This not only enables the two-phase starting of motors up to 55 kW (at 400 V) but also avoids the current and torque peaks which occur e.g. with wye-delta starters.

The SIRIUS 3RW40 soft starters are suitable for the starting of explosion-proof motors with "increased safety" type of protection EEx e according to ATEX Directive 94/9/EC.



3RW40 Basic Performance soft starters with accessories (see page 6/94)

Switching Devices – Soft Starters and Solid-State Switching Devices

SIRIUS 3RW Soft Starters

Basic Performance Soft Starters

3RW40 soft starters > General data

Benefits



3RW402.



3RW403.



3RW404.

Product characteristics / function	Performance features / benefits
Small and compact design	Space-saving, clearly arranged control panel layout
Motor overload and intrinsic device protection without additional wiring	Adjustable trip classes, integrated diagnostics functions
Integrated in the SIRIUS modular system	Link modules to motor starter protectors
Hybrid switching devices and two-phase motor control	Minimum power loss and optimized motor control by avoiding DC components
Certified according to ATEX Directive 94/9/EC	Suitable for the starting of explosion-proof motors with "increased safety" type of protection EEx e.
Optional thermistor motor protection	Full motor protection

Switching Devices – Soft Starters and Solid-State Switching Devices

SIRIUS 3RW Soft Starters

Basic Performance Soft Starters

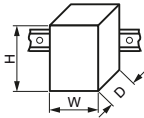
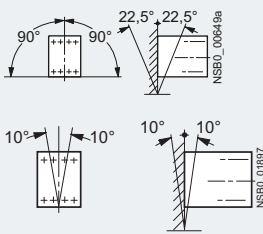
3RW40 soft starters > General data

Technical specifications

More information

Technical specifications, see
<https://support.industry.siemens.com/cs/ww/en/ps/25251/td>
 Equipment Manual "SIRIUS 3RW30/3RW40 Soft Starters", see
<https://support.industry.siemens.com/cs/ww/en/view/38752095>

FAQs, see <https://support.industry.siemens.com/cs/ww/en/ps/25251/faq>
 Simulation Tool for Soft Starters (STS), see page 6/8 or
<https://support.industry.siemens.com/cs/ww/en/view/101494917>

Type		3RW402.	3RW403.	3RW404.
Mechanics and environment				
Mounting dimensions (W x H x D) • Screw terminals • Spring-loaded terminals		45 x 125 x 154	55 x 144 x 170	70 x 160 x 188
		45 x 150 x 154	55 x 144 x 170	70 x 160 x 188
Permissible ambient temperature				
During operation	°C	-25 ... +60; (derating from +40)		
During storage	°C	-40 ... +80		
Weight	kg	0.77	1.35	1.9
Permissible mounting position¹⁾ • With auxiliary fan (for 3RW402. ... 3RW404.) • Without auxiliary fan (for 3RW402. ... 3RW404.)				
Installation type¹⁾	Stand-alone installation			
Permissible installation altitude	m	5 000 (Derating from 1 000, see characteristic curve on page 6/8)		
Degree of protection		IP20 for 3RW402.; all others IP00		

¹⁾ In the case of deviations, please observe derating, see Equipment Manual in the chapter "Configuring".

Type	Terminal	3RW402., 3RW403., 3RW404.
Control electronics		
Rated values		
Rated control supply voltage	A1/A2	24 AC/DC
• Tolerance	V	± 20
Rated frequency	Hz	50/60
• Tolerance	%	± 10
Power electronics		
Rated operational voltage	V AC	200 ... 480
Tolerance	%	-15/+10
Maximum blocking voltage (thyristor)	V AC	1 600
Rated frequency	Hz	50/60
Tolerance	%	± 10
Uninterrupted duty at 40 °C (% of I_e)	%	115
Minimum load (% of smallest adjustable rated motor current I_M)	%	20 (at least 2 A)
Maximum cable length between soft starter and motor	m	300

Switching Devices – Soft Starters and Solid-State Switching Devices

SIRIUS 3RW Soft Starters

Basic Performance Soft Starters

3RW40 soft starters > General data

Type		3RW4024	3RW4026	3RW4027	3RW4028
Power electronics					
Load rating with rated operational current I_{θ}					
• According to IEC and UL/CSA ¹⁾ , individual mounting at 40/50/60 °C, AC-53a	A	12.5/11/10	25.3/23/21	32.2/29/26	38/34/31
Smallest adjustable rated motor current I_M					
For the motor overload protection	A	5	10	17	23
Power loss					
• In operation after completed starting with uninterrupted rated operational current (40 °C) approx.	W	2	8	13	19
• During starting with current limiting set to 300% I_M (40 °C)	W	68	188	220	256
Permissible rated motor current and starts per hour					
• For normal starting (CLASS 10) at 40/50 °C					
- Rated motor current $I_M^{(2)}$, start-up time 3 s	A	12.5/11	25/23	32/29	38/34
- Starts per hour ³⁾	1/h	50/50	23/23	23/23	19/19
- Rated motor current $I_M^{(2)}$, start-up time 4 s	A	12.5/11	25/23	32/29	38/34
- Starts per hour ³⁾	1/h	36/36	15/15	16/16	12/12
• For heavy starting (CLASS 20) at 40/50 °C					
- Rated motor current $I_M^{(2)}$, start-up time 6 s	A	10/9	21/19	27/24	31/28
- Starts per hour ³⁾	1/h	47/47	21/21	20/20	18/18
- Rated motor current $I_M^{(2)}$, start-up time 8 s	A	10/9	21/19	27/24	31/28
- Starts per hour ³⁾	1/h	34/34	15/15	14/14	13/13

1) Measurement at 60 °C according to UL/CSA not required.

2) Current limiting on soft starter set to 300% I_M , $T_u = 40/50$ °C. Maximum adjustable rated motor current I_M dependent on CLASS setting.

3) For intermittent duty S4 with ON period = 30%, $T_u = 40/50$ °C, stand-alone installation vertical. The quoted switching frequencies do not apply for automatic mode. Factors for permissible switching frequency in other mounting position, direct mounting, side-by-side mounting, and implementation of optional auxiliary fan, see [Equipment Manual in the chapter "Configuring"](#).

Type		3RW4036	3RW4037	3RW4038	3RW4046	3RW4047
Power electronics						
Load rating with rated operational current I_{θ}						
• According to IEC and UL/CSA ¹⁾ , individual mounting at 40/50/60 °C, AC-53a	A	45/42/39	63/58/53	72/62.1/60	80/73/66	106/98/90
Smallest adjustable rated motor current I_M						
For the motor overload protection	A	23	26	35	43	46
Power loss						
• In operation after completed starting with uninterrupted rated operational current (40 °C) approx.	W	6	12	15	12	21
• During starting with current limiting set to 300% I_M (40 °C)	W	316	444	500	576	768
Permissible rated motor current and starts per hour						
• For normal starting (CLASS 10) at 40/50 °C						
- Rated motor current $I_M^{(2)}$, start-up time 3 s	A	45/42	63/58	72/62	80/73	106/98
- Starts per hour ³⁾	1/h	38/38	23/23	22/22	22/22	15/15
- Rated motor current $I_M^{(2)}$, start-up time 4 s	A	45/42	63/58	72/62	80/73	106/98
- Starts per hour ³⁾	1/h	26/26	15/15	15/15	15/15	10/10
• For heavy starting (CLASS 20) at 40/50 °C						
- Rated motor current $I_M^{(2)}$, start-up time 6 s	A	38/34	46/42	50/46	64/58	77/70
- Starts per hour ³⁾	1/h	30/30	31/31	34/34	23/23	23/23
- Rated motor current $I_M^{(2)}$, start-up time 8 s	A	38/34	46/42	50/46	64/58	77/70
- Starts per hour ³⁾	1/h	21/21	22/22	24/24	16/16	16/16

1) Measurement at 60 °C according to UL/CSA not required.

2) Current limiting on soft starter set to 300% I_M , $T_u = 40/50$ °C. Maximum adjustable rated motor current I_M dependent on CLASS setting.

3) For intermittent duty S4 with ON period = 30%, $T_u = 40/50$ °C, stand-alone installation vertical. The quoted switching frequencies do not apply for automatic mode. Factors for permissible switching frequency in other mounting position, direct mounting, side-by-side mounting, and implementation of optional auxiliary fan, see [Equipment Manual in the chapter "Configuring"](#).

Switching Devices – Soft Starters and Solid-State Switching Devices

SIRIUS 3RW Soft Starters

Basic Performance Soft Starters

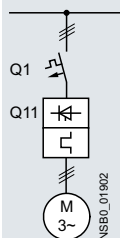
3RW40 soft starters > General data

Motor feeders according to IEC with 3RV2 motor starter protectors (without semiconductor protection)

Type of coordination "1", CLASS 10,
short-circuit breaking capacity I_q in kA, [see table](#)

Note:

For general recommendations for constructing motor feeders
with soft starters, [see page 6/10](#).



Soft starters	Motor starter protectors			
	for 400 V systems		for 500 V systems	
Q11	Q1	I_q	Q1	I_q
Type	Type	kA	Type	kA
Type of coordination "1"	Inline circuit			
3RW4024	3RV2021-4AA10	55	3RV2021-4AA10	10
3RW4026	3RV2021-4DA10	55	3RV2021-4DA10	10
3RW4027	3RV2021-4EA10	55	3RV2021-4EA10	10
3RW4028	3RV2021-4FA10	55	3RV2021-4FA10	10
3RW4036	3RV2031-4WA10	10	3RV2031-4WA10	10
3RW4037	3RV2031-4JA10	10	3RV2031-4JA10	5
3RW4038	3RV2031-4KA10	10	3RV2031-4KA10	5
3RW4046	3RV2041-4RA10	11	3RV2041-4YA10	5
3RW4047	3RV2041-4MA10	11	3RV2041-4MA10	5

Note:

The specified short-circuit breaking capacities I_q in kA are covered by combination tests. Smaller motor starter protectors/circuit breakers than those specified can be used at any time as smaller ones trip more quickly in the event of a short circuit (unchanged short-circuit breaking capacity) and thus protect the soft starter in any case. The dimensioning of the short-circuit components must, however, be suitable for the connected three-phase motor and the line protection for the cables used.

Switching Devices – Soft Starters and Solid-State Switching Devices

SIRIUS 3RW Soft Starters
Basic Performance Soft Starters

3RW40 soft starters > General data

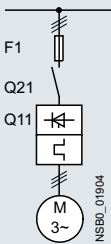
Motor feeders according to IEC with 3NA3 fuses

gG class full-range fuses for cable and line protection according to IEC 60269-2, without semiconductor protection

Type of coordination "1",
short-circuit breaking capacity $I_q = 65 \text{ kA}$

Note:

For general recommendations for constructing motor feeders with soft starters, [see page 6/10](#).

				
Soft starters	gG class fuse	Line contactor (optional)		
	for systems up to 600 V	for systems up to 400 V	for systems up to 480 V	for systems up to 600 V
Q11	F1	Q21	Q21	Q21
Type	Type	Type	Type	Type
Type of coordination "1"	Inline circuit 			
3RW4024	3NA3820-6	3RT2025	3RT2025/ 3RT2018 (in size S00)	3RT2025
3RW4026	3NA3822-6	3RT2026	3RT2027	3RT2037
3RW4027	3NA3824-6	3RT2027	3RT2028	3RT2037
3RW4028	3NA3824-6	3RT2028	3RT2035	3RT2037
3RW4036	3NA3130-6	3RT2036	3RT2036	3RT2038
3RW4037	3NA3132-6	3RT2037	3RT2037	3RT2046
3RW4038	3NA3132-6	3RT2038	3RT2038	3RT2046
3RW4046	3NA3136-6	3RT2045	3RT2045	3RT2047
3RW4047	3NA3136-6	3RT2047	3RT2047	3RT1054

Note:

The specified short-circuit breaking capacities I_q in kA are covered by combination tests. Smaller fuses than those specified can be used at any time as smaller ones trip more quickly in the event of a short circuit (unchanged short-circuit breaking capacity) and thus protect the soft starter in any case. The dimensioning of the short-circuit components must, however, be suitable for the connected three-phase motor and the line protection for the cables used.

Switching Devices – Soft Starters and Solid-State Switching Devices

SIRIUS 3RW Soft Starters

Basic Performance Soft Starters

3RW40 soft starters > General data

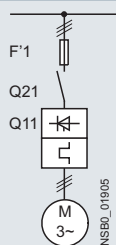
Motor feeders according to IEC with 3NE1 SITOR fuses

gR class full-range fuses for semiconductor protection, cable and line protection

Type of coordination "2",
short-circuit breaking capacity $I_q = 65 \text{ kA}$

Note:

For general recommendations for constructing motor feeders with soft starters, [see page 6/10](#).



Soft starters	gG class fuse		Line contactor (optional)		
	for systems up to 600 V	for systems up to 400 V	for systems up to 480 V	for systems up to 600 V	
Q11	F1	Q21	Q21	Q21	
Type	Type	Type	Type	Type	
Type of coordination "2"	Toc 2	Inline circuit			
3RW4024	3NE1814-0	3RT2025	3RT2025/ 3RT2018 (in size S00)	3RT2025	
3RW4026	3NE1803-0	3RT2026	3RT2027	3RT2037	
3RW4027	3NE1020-2	3RT2027	3RT2028	3RT2037	
3RW4028	3NE1020-2	3RT2028	3RT2035	3RT2037	
3RW4036	3NE1020-2	3RT2036	3RT2036	3RT2038	
3RW4037	3NE1820-0	3RT2037	3RT2037	3RT2046	
3RW4038	3NE1820-0	3RT2038	3RT2038	3RT2046	
3RW4046	3NE1021-0	3RT2045	3RT2045	3RT2047	
3RW4047	3NE1022-0	3RT2047	3RT2047	3RT1054	

Note:

The specified short-circuit breaking capacities I_q in kA are covered by combination tests. Smaller fuses than those specified can be used at any time as smaller ones trip more quickly in the event of a short circuit (unchanged short-circuit breaking capacity) and thus protect the soft starter in any case. The dimensioning of the short-circuit components must, however, be suitable for the connected three-phase motor and the line protection for the cables used.

Switching Devices – Soft Starters and Solid-State Switching Devices

SIRIUS 3RW Soft Starters

Basic Performance Soft Starters

3RW40 soft starters > General data

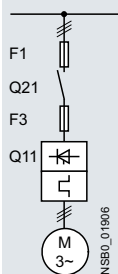
Motor feeders according to IEC with 3NE8 / 3NE4 / 3NE3 / 3NC fuses

aR class partial-range fuses for semiconductor protection

Type of coordination "2",
short-circuit breaking capacity $I_q = 65 \text{ kA}$

Note:

For general recommendations for constructing motor feeders
with soft starters, [see page 6/10](#).



Soft starters	gG class fuse	aR class fuse		Cylindrical fuses		Line contactor (optional)		
	for systems up to 600 V	for systems up to 600 V	for systems up to 600 V	for systems up to 600 V	for systems up to 480 V	for systems up to 400 V	for systems up to 480 V	for systems up to 600 V
Q11	F1	F3	F3	F3	F3	Q21	Q21	Q21
Type	Type	Type	Type	Type	Type	Type	Type	Type
Type of coordination "2"	ToC 2 Inline circuit							
3RW4024	3NA3820-6	--	3NE4101	3NE8015-1	3NC2240	3RT2025	3RT2025/ 3RT2018 (in size S00)	3RT2025
3RW4026	3NA3822-6	--	3NE4102	3NE8017-1	3NC2263	3RT2026	3RT2027	3RT2037
3RW4027	3NA3824-6	--	3NE4118	3NE8018-1	3NC2280	3RT2027	3RT2028	3RT2037
3RW4028	3NA3824-6	--	3NE4118	3NE8020-1	3NC2280	3RT2028	3RT2035	3RT2037
3RW4036	3NA3130-6	--	3NE4120	3NE8020-1	3NC2280	3RT2036	3RT2036	3RT2038
3RW4037	3NA3132-6	--	3NE4121	3NE8021-1	--	3RT2037	3RT2037	3RT2046
3RW4038	3NA3132-6	3NE3221	--	3NE8022-1	--	3RT2038	3RT2038	3RT2046
3RW4046	3NA3136-6	3NE3222	--	3NE8022-1	--	3RT2045	3RT2045	3RT2047
3RW4047	3NA3136-6	3NE3224	--	3NE8024-1	--	3RT2047	3RT2047	3RT1054

Note:

The specified short-circuit breaking capacities I_q in kA are covered by combination tests. Smaller fuses than those specified can be used at any time as smaller ones trip more quickly in the event of a short circuit (unchanged short-circuit breaking capacity) and thus protect the soft starter in any case. The dimensioning of the short-circuit components must, however, be suitable for the connected three-phase motor and the line protection for the cables used.

For CLASS 10 applications, as an alternative to the gG class full-range fuses for cable and line protection 3NA3 (F1), 3RV2 motor starter protectors can also be used, possibly with reduced short-circuit breaking capacity ([see page 6/88](#)). In these cases, optional line contactors can be dispensed with.

Switching Devices – Soft Starters and Solid-State Switching Devices

SIRIUS 3RW Soft Starters

Basic Performance Soft Starters

3RW40 soft starters > Inline circuit **IE3/IE4 ready**

Selection and ordering data

For normal starting (CLASS 10)



3RW402.



3RW403.



3RW404.

3RW ambient temperature 40 °C				3RW ambient temperature 50 °C				Size	SD ¹⁾	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
Rated values of three-phase motors				Rated values of three-phase motors										
Opera- tional current <i>I</i> _e	Rating at operational voltage <i>U</i> _e			Opera- tional current <i>I</i> _e	Rating at operational voltage <i>U</i> _e									
	230 V	400 V	500 V		200 V	230 V	460 V	575 V						
A	kW	kW	kW	A	hp	hp	hp	hp	d					
Rated operational voltage <i>U</i> _e 200 ... 480 V														
12.5	3	5.5	--	11	3	3	7.5	--	S0	2	3RW4024-□BB□4	1	1 unit	42G
25	5.5	11	--	23	5	5	15	--	S0	2	3RW4026-□BB□4	1	1 unit	42G
32	7.5	15	--	29	7.5	7.5	20	--	S0	2	3RW4027-□BB□4	1	1 unit	42G
38	11	18.5	--	34	10	10	25	--	S0	2	3RW4028-□BB□4	1	1 unit	42G
45	11	22	--	42	10	15	30	--	S2	2	3RW4036-□BB□4	1	1 unit	42G
63	18.5	30	--	58	15	20	40	--	S2	2	3RW4037-□BB□4	1	1 unit	42G
72	22	37	--	62	20	20	40	--	S2	2	3RW4038-□BB□4	1	1 unit	42G
80	22	45	--	73	20	25	50	--	S3	2	3RW4046-□BB□4	1	1 unit	42G
106	30	55	--	98	30	30	75	--	S3	2	3RW4047-□BB□4	1	1 unit	42G
Rated operational voltage <i>U</i> _e 400 ... 600 V														
12.5	--	5.5	7.5	11	--	--	7.5	10	S0	5	3RW4024-□BB□5	1	1 unit	42G
25	--	11	15	23	--	--	15	20	S0	5	3RW4026-□BB□5	1	1 unit	42G
32	--	15	18.5	29	--	--	20	25	S0	5	3RW4027-□BB□5	1	1 unit	42G
38	--	18.5	22	34	--	--	25	30	S0	5	3RW4028-□BB□5	1	1 unit	42G
45	--	22	30	42	--	--	30	40	S2	5	3RW4036-□BB□5	1	1 unit	42G
63	--	30	37	58	--	--	40	50	S2	5	3RW4037-□BB□5	1	1 unit	42G
72	--	37	45	62	--	--	40	60	S2	5	3RW4038-□BB□5	1	1 unit	42G
80	--	45	55	73	--	--	50	60	S3	5	3RW4046-□BB□5	1	1 unit	42G
106	--	55	75	98	--	--	75	75	S3	5	3RW4047-□BB□5	1	1 unit	42G

Article No. supplement for connection types

- Screw terminals
- Spring-loaded terminals²⁾

Control supply voltage

- 24 V AC/DC
- 110 ... 230 V AC/DC

¹⁾ Soft starter U_e 200 to 480 V with screw terminals:
Standard delivery time SD = 1 day (d).

²⁾ Main connection from size S2: screw terminals.

Note:

For the constraints for the motor outputs specified here, see [page 6/8](#).

1
2
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1

Switching Devices – Soft Starters and Solid-State Switching Devices

SIRIUS 3RW Soft Starters

Basic Performance Soft Starters

IE3/IE4 ready 3RW40 soft starters > Inline circuit

For normal starting (CLASS 10)


3RW402.



3RW403.



3RW404.

3RW ambient temperature 40 °C				3RW ambient temperature 50 °C				Size	SD ¹⁾	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
Rated values of three-phase motors				Rated values of three-phase motors										
Operational current I_e	Rating at operational voltage U_e			Operational current I_e	Rating at operational voltage U_e									
	230 V	400 V	500 V		200 V	230 V	460 V	575 V						
A	kW	kW	kW	A	hp	hp	hp	hp	d					
Rated operational voltage U_e 200 ... 480 V, with thermistor motor protection, rated control supply voltage U_s 24 V AC/DC														
12.5	3	5.5	--	11	3	3	7.5	--	S0	5	3RW4024-□TB04	1	1 unit	42G
25	5.5	11	--	23	5	5	15	--	S0	5	3RW4026-□TB04	1	1 unit	42G
32	7.5	15	--	29	7.5	7.5	20	--	S0	5	3RW4027-□TB04	1	1 unit	42G
38	11	18.5	--	34	10	10	25	--	S0	5	3RW4028-□TB04	1	1 unit	42G
45	11	22	--	42	10	15	30	--	S2	5	3RW4036-□TB04	1	1 unit	42G
63	18.5	30	--	58	15	20	40	--	S2	5	3RW4037-□TB04	1	1 unit	42G
72	22	37	--	62	20	20	40	--	S2	5	3RW4038-□TB04	1	1 unit	42G
80	22	45	--	73	20	25	50	--	S3	5	3RW4046-□TB04	1	1 unit	42G
106	30	55	--	98	30	30	75	--	S3	5	3RW4047-□TB04	1	1 unit	42G
Rated operational voltage U_e 400 ... 600 V, with thermistor motor protection, rated control supply voltage U_s 24 V AC/DC														
12.5	--	5.5	7.5	11	--	--	7.5	10	S0	5	3RW4024-□TB05	1	1 unit	42G
25	--	11	15	23	--	--	15	20	S0	5	3RW4026-□TB05	1	1 unit	42G
32	--	15	18.5	29	--	--	20	25	S0	5	3RW4027-□TB05	1	1 unit	42G
38	--	18.5	22	34	--	--	25	30	S0	5	3RW4028-□TB05	1	1 unit	42G
45	--	22	30	42	--	--	30	40	S2	5	3RW4036-□TB05	1	1 unit	42G
63	--	30	37	58	--	--	40	50	S2	5	3RW4037-□TB05	1	1 unit	42G
72	--	37	45	62	--	--	40	60	S2	5	3RW4038-□TB05	1	1 unit	42G
80	--	45	55	73	--	--	50	60	S3	5	3RW4046-□TB05	1	1 unit	42G
106	--	55	75	98	--	--	75	75	S3	5	3RW4047-□TB05	1	1 unit	42G

Article No. supplement for connection types

- Screw terminals
- Spring-loaded terminals²⁾

1
2
¹⁾ Soft starter U_e 200 to 480 V with screw terminals:
Standard delivery time SD = 1 day (d).

²⁾ Main connection from size S2: screw terminals.

Note:

For the constraints for the motor outputs specified here, see page 6/8.

Switching Devices – Soft Starters and Solid-State Switching Devices

SIRIUS 3RW Soft Starters

Basic Performance Soft Starters

3RW40 soft starters > Accessories

Selection and ordering data

						Conductor cross-section	Tightening torque	For soft starters size	SD	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	
						Solid or stranded									
						mm²	mm²	AWG	Nm	d					
Three-phase infeed terminals															
						2.5 ... 25	2.5 ... 16	10 ... 4	3 ... 4	S0 (3RW402.) ▶	3RV2925-5AB		1	1 unit	41E
						For soft starters Type	Size	Version	SD	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	
									d						
Auxiliary terminals															
						Auxiliary terminals, 3-pole				5	3RT2946-4F		1	1 unit	41B
						3RW404.	S3	For connection of auxiliary and control cables (0.5 ... 2.5 mm²) to the main conductor terminals							
Covers for soft starters															
						Terminal covers for box terminals				▶	3RT2936-4EA2		1	1 unit	41B
						3RW403.	S2	Additional touch protection to be fitted at the box terminals (two units required per device)							
						3RW404.	S3								
						Terminal covers for cable lugs and busbar connections				5	3RT1946-4EA1		1	1 unit	41B
						3RW404.	S3	For complying with the voltage clearances and as touch protection if box terminal is removed (two units required per device)							
						Sealing covers				5	3RW4900-0PB10		1	1 unit	42G
						3RW402. to 3RW404.	S0, S2, S3	--							

Switching Devices – Soft Starters and Solid-State Switching Devices

SIRIUS 3RW Soft Starters

Basic Performance Soft Starters

3RW40 soft starters > Accessories

For motor starter protectors	For soft starters	Version	SD	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
Size	Size		d					

Standard mounting rail adapters



3RA2932-1CA00

S2	S2	For mechanical fixing of motor starter protector and soft starter; for snapping onto standard mounting rail or for screw fixing Single-unit packaging	2	3RA2932-1CA00		1	1 unit	41B
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For soft starters	SD	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
Type	Size					
	d					

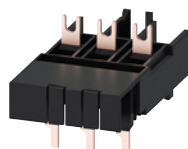
Fans (to increase switching frequency and for device mounting in positions different to the standard position)



3RW49..-8VB00

3RW402.	S0	▶	3RW4928-8VB00	1	1 unit	42G
3RW403., 3RW404.	S2, S3	▶	3RW4947-8VB00	1	1 unit	42G

For soft starters	SD	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
Type	Size	Motor starter protectors Size				
	d					

Link modules to motor starter protectors¹⁾

3RA2921-1BA00

3RW402.	S0	S00/S0	2	3RA2921-1BA00		1	1 unit	41B
3RW4036	S2	S2	▶	3RA2931-1AA00		1	1 unit	41B
3RW404.	S3	S3	▶	3RA1941-1AA00		1	1 unit	41B
				Spring-loaded terminals				
3RW402.	S0	S0	2	3RA2921-2GA00		1	1 unit	41B

- ¹⁾ Can be used in size S0 up to 32 A.
Can be used in size S2 up to 65 A in combination with 3RA2932-1CA00 standard mounting rail adapter (specially for soft starters).
Can be used in size S3 only with mounting plate.

Version	SD	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
	d					

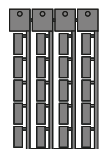
Tools for opening spring-loaded terminals in sizes S00 and S0



3RA2908-1A

Screwdrivers For all SIRIUS devices with spring-loaded terminals Length approx. 200 mm, 3.0 mm x 0.5 mm, titanium gray/black, partially insulated	2	3RA2908-1A		1	1 unit	41B
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Blank labels



3RT2900-1SB20

Unit labeling plates¹⁾ For SIRIUS devices 20 mm x 7 mm, titanium gray	20	3RT2900-1SB20		100	340 units	41B
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- ¹⁾ PC labeling systems for individual inscription of unit labeling plates are available from: murrplastik Systemtechnik GmbH (see page 16/14).

Switching Devices – Soft Starters and Solid-State Switching Devices

SIRIUS 3RW Soft Starters

Basic Performance Soft Starters

3RW30 soft starters > General data

Overview

More information

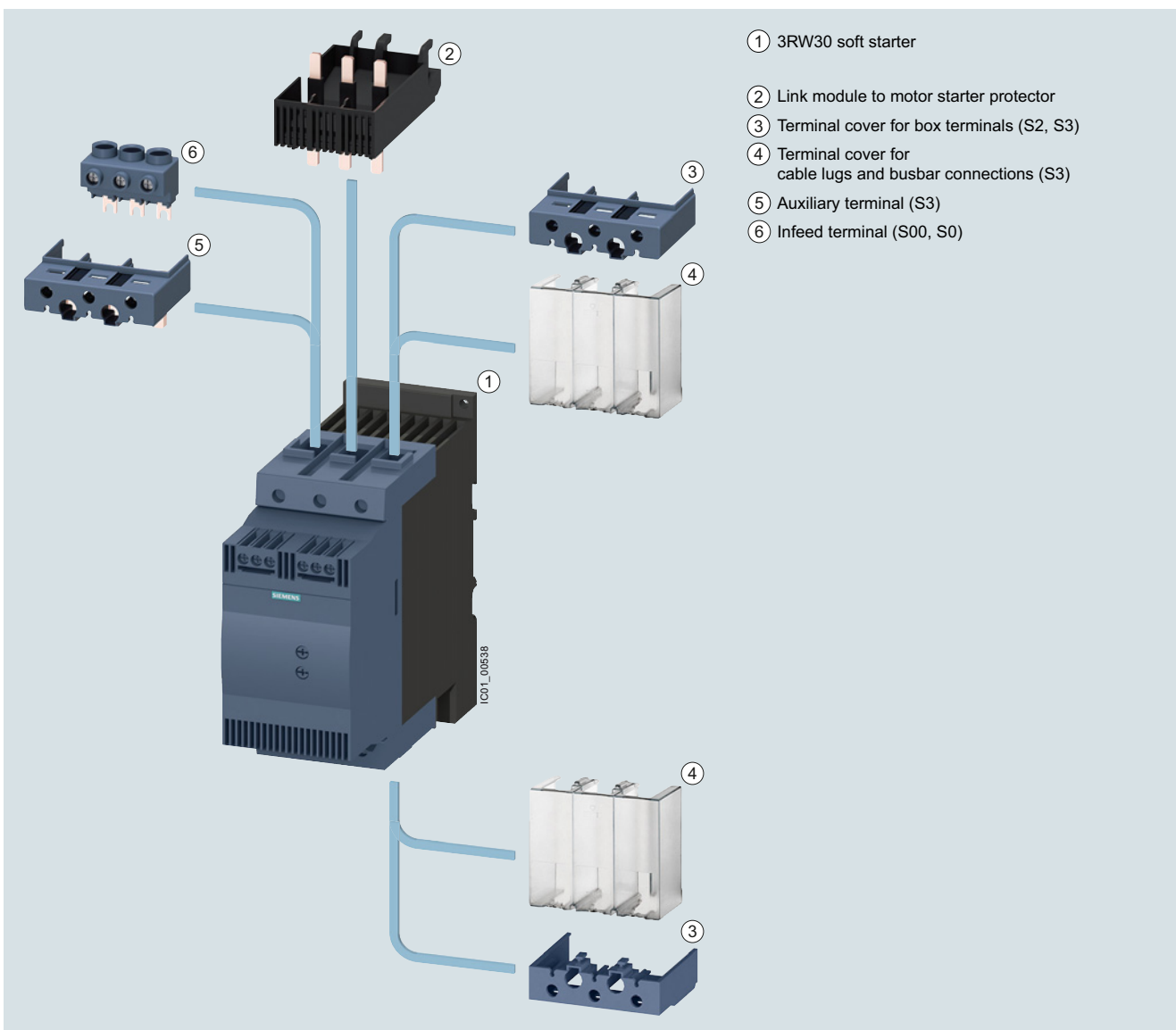
Homepage, see www.siemens.com/soft-starter
 Industry Mall, see www.siemens.com/product?3RW
 TIA Selection Tool Cloud (TST Cloud), see
<https://www.siemens.com/tstcloud/?node=3rw30>

Simulation Tool for Soft Starters (STS), see page 6/8 or
<https://support.industry.siemens.com/cs/ww/en/view/101494917>
 SIRIUS Soft Starter ES (TIA Portal) for diagnostics, see page 14/5



The SIRIUS 3RW30 Basic Performance soft starters are suitable for soft starting of three-phase asynchronous motors.

Thanks to two-phase control, not only is the current kept at minimum values in all three phases throughout the entire starting time, but disturbing direct current components are also eliminated. This not only enables the two-phase starting of motors up to 55 kW (at 400 V) but also avoids the current and torque peaks which occur e.g. with wye-delta starters.



3RW30 Basic Performance soft starters with accessories (see page 6/105)

Switching Devices – Soft Starters and Solid-State Switching Devices

SIRIUS 3RW Soft Starters

Basic Performance Soft Starters

3RW30 soft starters > General data

Benefits



3RW301.



3RW302.



3RW303.



3RW304.



3RW3003-2CB54

Product characteristics / function	Performance features / benefits
Small and compact design	Space-saving, clearly arranged control panel layout
Parameterization using potentiometers	Simple and fast commissioning
Integrated in the SIRIUS modular system	Link modules to motor starter protectors
Hybrid switching devices and two-phase motor control	Minimum power loss and optimized motor control by avoiding DC components

Technical specifications

More information

Equipment Manual "SIRIUS 3RW30/3RW40 Soft Starters", see <https://support.industry.siemens.com/cs/ww/en/view/38752095>
 FAQs, see <https://support.industry.siemens.com/cs/ww/en/ps/16213/faq>

Catalog LV 10, see www.siemens.com/lowvoltage/lv10

Type			3RW301.	3RW302.	3RW303.	3RW304.		
Mechanics and environment								
Mounting dimensions (W x H x D) • Screw terminals • Spring-loaded terminals				mm	45 x 95 x 151	45 x 125 x 151	55 x 144 x 168	70 x 160 x 186
				mm	45 x 117 x 151	45 x 150 x 151	55 x 144 x 168	70 x 160 x 186
Permissible ambient temperature								
During operation			°C	-25 ... +60; (derating from +40)				
During storage			°C	-40 ... +80				
Weight			kg	0.58	0.69	1.20	1.71	
Permissible mounting position¹⁾ (auxiliary fan not possible)								
Installation type¹⁾			Stand-alone installation					
				① ≥ 15 mm (≥ 0.59 in) ② ≥ 40 mm (≥ 1.56 in) ③ ≥ 60 mm (≥ 2.36 in)	① ≥ 30 mm (≥ 1.18 in) ② ≥ 40 mm (≥ 1.56 in) ③ ≥ 60 mm (≥ 2.36 in)			
Permissible installation altitude			m	5 000 (Derating from 1 000, see characteristic curve on page 6/8)				
Degree of protection			IP20 for 3RW301. and 3RW302.; IP00 for 3RW303. and 3RW304.					

¹⁾ In the case of deviations, please observe derating, see [Equipment Manual in the chapter "Configuring"](#).

Switching Devices – Soft Starters and Solid-State Switching Devices

SIRIUS 3RW Soft Starters

Basic Performance Soft Starters

3RW30 soft starters > General data

Type	Terminal		3RW301., 3RW302.		3RW303., 3RW304.	
Control electronics						
Rated values						
Rated control supply voltage	A1/A2	V	24	110 ... 230	24	110 ... 230
• Tolerance		%	± 20	-15/+10	± 20	-15/+10
Rated frequency		Hz	50/60			
• Tolerance		%	± 10			

Type		3RW301.	3RW302.	3RW303.	3RW304.
Power electronics					
Rated operational voltage	V AC	200 ... 480			
Tolerance	%	-15/+10			
Rated frequency	Hz	50/60			
Tolerance	%	± 10			
Uninterrupted duty at 40 °C (% of I_e)	%	115			
Minimum load (% of I_e)	%	10 (at least 1 A)			
Maximum cable length between soft starter and motor	m	300			

Type		3RW3013	3RW3014	3RW3016	3RW3017	3RW3018
Power electronics						
Load rating with rated operational current I_e						
• According to IEC and UL/CSA ¹⁾ , individual mounting at 40/50/60 °C, AC-53a A	A	3.6/3.3/3	6.5/6/5.5	9/8/7	12.5/12/11	17.6/17/14
Power loss						
• In operation after completed starting with uninterrupted rated operational current (40 °C) approx.	W	0.25	0.5	1	2	4
• During starting with 300% I_M (40 °C)	W	24	52	80	80	116
Permissible rated motor current and starts per hour						
• For normal starting (CLASS 10) at 40/50 °C						
- Rated motor current $I_M^{(2)}$, start-up time 3 s	A	3.6/3.3	6.5/6.0	9/8	12.5/12.0	17.6/17.0
- Starts per hour ³⁾	1/h	200/150	87/60	50/50	85/70	62/46
- Rated motor current $I_M^{(2)}$, start-up time 4 s	A	3.6/3.3	6.5/6.0	9/8	12.5/12.0	17.6/17.0
- Starts per hour ³⁾	1/h	150/100	64/46	35/35	62/47	45/32

¹⁾ Measurement at 60 °C according to UL/CSA not required.

²⁾ At 300% I_M , $T_u = 40/50$ °C.

³⁾ For intermittent duty S4 with ON period = 30%, $T_u = 40/50$ °C, stand-alone installation vertical. The quoted switching frequencies do not apply for automatic mode.

Type		3RW3026	3RW3027	3RW3028
Power electronics				
Load rating with rated operational current I_e				
• According to IEC and UL/CSA ¹⁾ , individual mounting at 40/50/60 °C, AC-53a A	A	25.3/23/21	32.2/29/26	38/34/31
Power loss				
• In operation after completed starting with uninterrupted rated operational current (40 °C) approx.	W	8	13	19
• During starting with 300% I_M (40 °C)	W	188	220	256
Permissible rated motor current and starts per hour				
• For normal starting (CLASS 10) at 40/50 °C				
- Rated motor current $I_M^{(2)}$, start-up time 3 s	A	25/23	32/29	38/34
- Starts per hour ³⁾	1/h	23/23	23/23	19/19
- Rated motor current $I_M^{(2)}$, start-up time 4 s	A	25/23	32/29	38/34
- Starts per hour ³⁾	1/h	15/15	16/16	12/12

¹⁾ Measurement at 60 °C according to UL/CSA not required.

²⁾ At 300% I_M , $T_u = 40/50$ °C.

³⁾ For intermittent duty S4 with ON period = 30%, $T_u = 40/50$ °C, stand-alone installation vertical. The quoted switching frequencies do not apply for automatic mode. Factors for permissible switching frequency with deviating mounting position, direct mounting, side-by-side mounting, see [Equipment Manual in the chapter "Configuring"](#).

Type		3RW3036	3RW3037	3RW3038	3RW3046	3RW3047
Power electronics						
Load rating with rated operational current I_e						
• According to IEC and UL/CSA ¹⁾ , individual mounting at 40/50/60 °C, AC-53a A	A	45/42/39	65/58/53	72/62.1/60	80/73/66	106/98/90
Power loss						
• In operation after completed starting with uninterrupted rated operational current (40 °C) approx.	W	6	12	15	12	21
• During starting with 300% I_M (40 °C)	W	316	444	500	576	768
Permissible rated motor current and starts per hour						
• For normal starting (CLASS 10) at 40/50 °C						
- Rated motor current $I_M^{(2)}$, start-up time 3 s	A	45/42	63/58	72/62	80/73	106/108
- Starts per hour ³⁾	1/h	38/38	23/23	22/22	22/22	15/15
- Rated motor current $I_M^{(2)}$, start-up time 4 s	A	45/42	63/58	72/62	80/73	106/98
- Starts per hour ³⁾	1/h	26/26	15/15	15/15	15/15	10/10

¹⁾ Measurement at 60 °C according to UL/CSA not required.

²⁾ At 300% I_M , $T_u = 40/50$ °C.

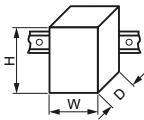
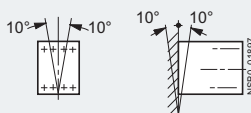
³⁾ For intermittent duty S4 with ON period = 30%, $T_u = 40/50$ °C, stand-alone installation vertical. The quoted switching frequencies do not apply for automatic mode.

Switching Devices – Soft Starters and Solid-State Switching Devices

SIRIUS 3RW Soft Starters

Basic Performance Soft Starters

3RW30 soft starters > General data

Type	3RW3003-1CB54		3RW3003-2CB54
Mechanics and environment			
Mounting dimensions (W x H x D) • Screw terminals • Spring-loaded terminals	 mm mm	22.5 x 100 x 120 --	-- 22.5 x 101.6 x 120
Permissible ambient temperature			
During operation	°C	-25 ... +60; (derating from +40)	
During storage	°C	-40 ... +80	
Weight	kg	0.207	0.188
Permissible mounting position			
			
Permissible installation altitude	m	5 000 (Derating from 1 000, see characteristic curve on page 6/8)	
Degree of protection acc. to IEC 60529 IP20 (IP00 terminal compartment)			
Control electronics			
Rated values			
Rated control supply voltage	V	24 ... 230 AC/DC	
• Tolerance	%	± 10	
Rated frequency at AC	Hz	50/60	
• Tolerance	%	± 10	
Power electronics			
Rated operational voltage			
Tolerance	V AC %	200 ... 400 ± 10	
Rated frequency	Hz	50/60	
Tolerance	%	± 10	
Uninterrupted duty (% of I _e)	%	100	
Minimum load ¹⁾ (% of I _e); at 40 °C	%	9	
Maximum conductor length between soft starter and motor	m	100 ²⁾	
Load rating with rated operational current I _e			
• According to IEC and UL/CSA, individual mounting at 40/50/60 °C, AC-53a	A	3/2.6/2.2	
• According to IEC and UL/CSA, side-by-side mounting at 40/50/60 °C, AC-53a	A	2.6/2.2/1.8	
Power loss			
• In operation after completed starting with uninterrupted rated operational current (40 °C) approx.	W	6.5	
• With utilization of maximum switching frequency	W	3	
Permissible starts per hour (cannot be increased by using a fan)			
• For intermittent duty S4 T _{ij} = 40 °C, stand-alone installation vertical	1/h	1 500	
• ON period = 70% for 300% I _e	1/s	0.2	
Dead time after uninterrupted duty with I _e before restart			
	s	0	

¹⁾ The rated motor current (specified on the motor's name plate) should at least amount to the specified percentage of the SIRIUS soft starter unit's rated operational current I_e .

²⁾ If this value is exceeded, problems with line capacities may arise, which can result in false firing.

Switching Devices – Soft Starters and Solid-State Switching Devices

SIRIUS 3RW Soft Starters

Basic Performance Soft Starters

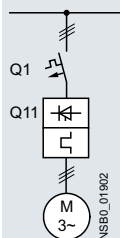
3RW30 soft starters > General data

Motor feeders according to IEC with 3RV2 motor starter protectors (without semiconductor protection)

Type of coordination "1", CLASS 10,
short-circuit breaking capacity I_q in kA, [see table](#)

Note:

For general recommendations for constructing motor feeders
with soft starters, [see page 6/10](#).



Soft starters		Motor starter protectors	
Q11		for 400 V systems	
Type		Type	I_q kA
Type of coordination "1"	ToC 1	Inline circuit	
3RW3003		3RV2011-1EA10	50
3RW3013		3RV2011-1FA10	5
3RW3014		3RV2011-1HA10	5
3RW3016		3RV2011-1JA10	5
3RW3017		3RV2011-1KA10	5
3RW3018		3RV2021-4BA10	5
3RW3026		3RV2021-4DA10	55
3RW3027		3RV2021-4EA10	55
3RW3028		3RV2021-4FA10	55
3RW3036		3RV2031-4WA10	10
3RW3037		3RV2031-4JA10	10
3RW3038		3RV2031-4KA10	10
3RW3046		3RV2041-4RA10	11
3RW3047		3RV2041-4MA10	11

Note:

The specified short-circuit breaking capacities I_q in kA are covered by combination tests. Smaller motor starter protectors/circuit breakers than those specified can be used at any time as smaller ones trip more quickly in the event of a short circuit (unchanged short-circuit breaking capacity) and thus protect the soft starter in any case. The dimensioning of the short-circuit components must, however, be suitable for the connected three-phase motor and the line protection for the cables used.

Switching Devices – Soft Starters and Solid-State Switching Devices

SIRIUS 3RW Soft Starters

Basic Performance Soft Starters

3RW30 soft starters > General data

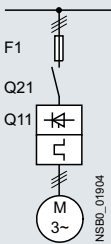
Motor feeders according to IEC with 3NA3 fuses

gG class full-range fuses for cable and line protection according to IEC 60269-2, without semiconductor protection

Type of coordination "1",
short-circuit breaking capacity $I_q = 65 \text{ kA}$

Note:

For general recommendations for constructing motor feeders with soft starters, [see page 6/10](#).

			
Soft starters	gG class fuse	Line contactor (optional)	
Q11	for systems up to 480 V	for systems up to 400 V	for systems up to 480 V
Type	F1	Q21	Q21
Type	Type	Type	Type
Type of coordination "1"	Inline circuit		
3RW3003¹⁾	3NA3805 ²⁾	3RT2015	3RT2015
3RW3013	3NA3803-6	3RT2015	3RT2015
3RW3014	3NA3805-6	3RT2015	3RT2016
3RW3016	3NA3807-6	3RT2016	3RT2017
3RW3017	3NA3810-6	3RT2018	3RT2025
3RW3018	3NA3814-6	3RT2026	3RT2026
3RW3026	3NA3822-6	3RT2026	3RT2027
3RW3027	3NA3824-6	3RT2027	3RT2028
3RW3028	3NA3824-6	3RT2028	3RT2035
3RW3036	3NA3130-6	3RT2036	3RT2036
3RW3037	3NA3132-6	3RT2037	3RT2037
3RW3038	3NA3132-6	3RT2038	3RT2038
3RW3046	3NA3136-6	3RT2045	3RT2045
3RW3047	3NA3136-6	3RT2047	3RT2047

¹⁾ $I_q = 50 \text{ kA}$ at 400 V.

²⁾ 3NA3805-1 (NH00), 5SB261 (DIAZED), 5SE2201-6 (NEOZED).

Note:

The specified short-circuit breaking capacities I_q in kA are covered by combination tests. Smaller fuses than those specified can be used at any time as smaller ones trip more quickly in the event of a short circuit (unchanged short-circuit breaking capacity) and thus protect the soft starter in any case. The dimensioning of the short-circuit components must, however, be suitable for the connected three-phase motor and the line protection for the cables used.

Switching Devices – Soft Starters and Solid-State Switching Devices

SIRIUS 3RW Soft Starters

Basic Performance Soft Starters

3RW30 soft starters > General data

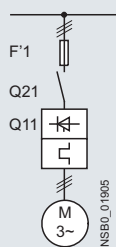
Motor feeders according to IEC with 3NE1 SITOR fuses

gR class full-range fuses for semiconductor protection, cable and line protection

Type of coordination "2",
short-circuit breaking capacity $I_q = 65$ kA

Note:

For general recommendations for constructing motor feeders with soft starters, [see page 6/10](#).



Soft starters	gG class fuse	Line contactor (optional)	
		for systems up to 400 V	for systems up to 480 V
Q11	F'1	Q21	Q21
Type	Type	Type	Type
Type of coordination "2"	Inline circuit		
3RW3003 ¹⁾	3NE1813-0 ²⁾	3RT2015	3RT2015
3RW3013	3NE1813-0	3RT2015	3RT2015
3RW3014	3NE1813-0	3RT2015	3RT2016
3RW3016	3NE1813-0	3RT2016	3RT2017
3RW3017	3NE1813-0	3RT2018	3RT2025
3RW3018	3NE1814-0	3RT2026	3RT2026
3RW3026	3NE1803-0	3RT2026	3RT2027
3RW3027	3NE1020-2	3RT2027	3RT2028
3RW3028	3NE1020-2	3RT2028	3RT2035
3RW3036	3NE1020-2	3RT2036	3RT2036
3RW3037	3NE1820-0	3RT2037	3RT2037
3RW3038	3NE1820-0	3RT2038	3RT2038
3RW3046	3NE1021-0	3RT2045	3RT2045
3RW3047	3NE1022-0	3RT2047	3RT2047

¹⁾ $I_q = 50$ kA at 400 V.

²⁾ No SITOR fuse required!
Alternatively: 3NA3803 (NH00), 5SB221 (DIAZED), 5SE2206 (NEOZED).

Note:

The specified short-circuit breaking capacities I_q in kA are covered by combination tests. Smaller fuses than those specified can be used at any time as smaller ones trip more quickly in the event of a short circuit (unchanged short-circuit breaking capacity) and thus protect the soft starter in any case. The dimensioning of the short-circuit components must, however, be suitable for the connected three-phase motor and the line protection for the cables used.

Switching Devices – Soft Starters and Solid-State Switching Devices

SIRIUS 3RW Soft Starters

Basic Performance Soft Starters

3RW30 soft starters > General data

Motor feeders according to IEC with 3NE8 / 3NE4 / 3NE3 / 3NC fuses

aR class partial-range fuses for semiconductor protection

Type of coordination "2",
short-circuit breaking capacity $I_q = 65$ kA

Note:

For general recommendations for constructing motor feeders
with soft starters, [see page 6/10](#).

Soft starters	gG class fuse	aR class fuse			Cylindrical fuses	Line contactor (optional)	
	for systems up to 480 V	for systems up to 480 V	for systems up to 480 V	for systems up to 480 V	for systems up to 480 V	for systems up to 400 V	for systems up to 480 V
Q11	F1	F3	F3	F3	F3	Q21	Q21
Type	Type	Type	Type	Type	Type	Type	Type
Type of coordination "2"	Inline circuit						
3RW3003 ¹⁾	3NA3805 ²⁾	--	--	3NE8015-1	3NC1010	3RT2015	3RT2015
3RW3013	3NA3803-6	--	3NE4101	3NE8015-1	3NC2220	3RT2015	3RT2015
3RW3014	3NA3805-6	--	3NE4101	3NE8015-1	3NC2220	3RT2015	3RT2016
3RW3016	3NA3807-6	--	3NE4101	3NE8015-1	3NC2220	3RT2016	3RT2017
3RW3017	3NA3810-6	--	3NE4101	3NE8015-1	3NC2250	3RT2018	3RT2025
3RW3018	3NA3814-6	--	3NE4101	3NE8003-1	3NC2263	3RT2026	3RT2026
3RW3026	3NA3822-6	--	3NE4102	3NE8017-1	3NC2263	3RT2026	3RT2027
3RW3027	3NA3824-6	--	3NE4118	3NE8018-1	3NC2280	3RT2027	3RT2028
3RW3028	3NA3824-6	--	3NE4118	3NE8020-1	3NC2280	3RT2028	3RT2035
3RW3036	3NA3130-6	--	3NE4120	3NE8020-1	3NC2280	3RT2036	3RT2036
3RW3037	3NA3132-6	--	3NE4121	3NE8021-1	--	3RT2037	3RT2037
3RW3038	3NA3132-6	3NE3221	--	3NE8022-1	--	3RT2038	3RT2038
3RW3046	3NA3136-6	3NE3222	--	3NE8022-1	--	3RT2045	3RT2045
3RW3047	3NA3136-6	3NE3224	--	3NE8024-1	--	3RT2047	3RT2047

¹⁾ $I_q = 50$ kA at 400 V.

²⁾ 3NA3805-1 (NH00), 5SB261 (DIAZED).

Note:

The specified short-circuit breaking capacities I_q in kA are covered by combination tests. Smaller fuses than those specified can be used at any time as smaller ones trip more quickly in the event of a short circuit (unchanged short-circuit breaking capacity) and thus protect the soft starter in any case. The dimensioning of the short-circuit components must, however, be suitable for the connected three-phase motor and the line protection for the cables used.

For CLASS 10 applications, as an alternative to the gG class full-range fuses for cable and line protection 3NA3 (F1), 3RV2 motor starter protectors/circuit breakers can also be used, possibly with reduced short-circuit breaking capacity ([see page 6/100](#)). In these cases, optional line contactors can be dispensed with.

Switching Devices – Soft Starters and Solid-State Switching Devices

SIRIUS 3RW Soft Starters

Basic Performance Soft Starters

3RW30 soft starters > Inline circuit **IE3/IE4 ready**

Selection and ordering data

For simple starting conditions



3RW301.1



3RW302.2



3RW303.3



3RW304.4



3RW3003-2CB54

3RW ambient temperature 40 °C				3RW ambient temperature 50 °C					Size	SD ¹⁾	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	
Rated values of three-phase motors				Rated values of three-phase motors												
Opera- tional current I_e	Rating at operational voltage U_e			Opera- tional current I_e	Rating at operational voltage U_e											
	230 V	400 V	500 V		200 V	230 V	460 V	575 V								
A	kW	kW	kW	A	hp	hp	hp	hp	d							
Rated operational voltage U_e 200 ... 480 V																
3.6	0.75	1.5	--	3	0.5	0.5	1.5	--	S00	2	3RW3013-□BB□4		1	1 unit	42G	
6.5	1.5	3	--	6	1	1	3	--	S00	2	3RW3014-□BB□4		1	1 unit	42G	
9	2.2	4	--	8	2	2	5	--	S00	2	3RW3016-□BB□4		1	1 unit	42G	
12.5	3	5.5	--	12	3	3	7.5	--	S00	2	3RW3017-□BB□4		1	1 unit	42G	
17.6	4	7.5	--	17	3	3	10	--	S00	2	3RW3018-□BB□4		1	1 unit	42G	
25	5.5	11	--	23	5	5	15	--	S0	2	3RW3026-□BB□4		1	1 unit	42G	
32	7.5	15	--	29	7.5	7.5	20	--	S0	2	3RW3027-□BB□4		1	1 unit	42G	
38	11	18.5	--	34	10	10	25	--	S0	2	3RW3028-□BB□4		1	1 unit	42G	
45	11	22	--	42	10	15	30	--	S2	2	3RW3036-□BB□4		1	1 unit	42G	
63	18.5	30	--	58	15	20	40	--	S2	2	3RW3037-□BB□4		1	1 unit	42G	
72	22	37	--	62	20	20	40	--	S2	2	3RW3038-□BB□4		1	1 unit	42G	
80	22	45	--	73	20	25	50	--	S3	2	3RW3046-□BB□4		1	1 unit	42G	
106	30	55	--	98	30	30	75	--	S3	2	3RW3047-□BB□4		1	1 unit	42G	

Article No. supplement for connection types

- Screw terminals
- Spring-loaded terminals²⁾

Control supply voltage U_s

- 24 V AC/DC
- 110 ... 230 V AC/DC

Soft starters for easy starting conditions and high switching frequency, rated operational voltage U_e 200 ... 400 V, rated control supply voltage U_s 24 ... 230 V AC/DC

3	0.55	1.1	--	A	0.5	0.5	--	--	22.5 mm					
• With screw terminals • With spring-loaded terminals										▶	3RW3003-1CB54	1	1 unit	42G
										▶	3RW3003-2CB54	1	1 unit	42G

¹⁾ Soft starter U_e 200 to 480 V with screw terminals:

Standard delivery time SD = 1 day (d).

²⁾ Main connection from size S2: screw terminals.

Note:

For the constraints for the motor outputs specified here, see page 6/8.

Switching Devices – Soft Starters and Solid-State Switching Devices

SIRIUS 3RW Soft Starters

Basic Performance Soft Starters

3RW30 soft starters > Accessories

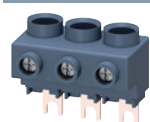
Selection and ordering data

More information

Equipment Manual "SIRIUS 3RW30/3RW40 Soft Starters", see
<https://support.industry.siemens.com/cs/ww/en/view/38752095>

Conductor cross-section	Finely stranded with end sleeve	AWG cables, solid or stranded	Tightening torque	For soft starters size	SD	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
mm ²	mm ²	AWG	Nm		d					

Three-phase infeed terminals



3RW2925-5AB

2.5 ... 25	2.5 ... 16	10 ... 4	3 ... 4	S00 (3RW301.), S0 (3RW302.)	▶	3RW2925-5AB		1	1 unit	41E
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For soft starters Type	Size	SD	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
		d					

Auxiliary terminals



3RT2946-4F

Auxiliary terminals, 3-pole

3RW304.	S3	5	3RT2946-4F		1	1 unit	41B
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Covers for soft starters

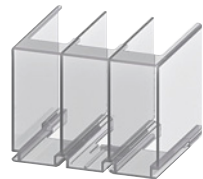


3RT2946-4EA2

Terminal covers for box terminals

Additional touch protection to be fitted at the box terminals (two units required per device)

3RW303.	S2	▶	3RT2936-4EA2		1	1 unit	41B
3RW304.	S3	▶	3RT2946-4EA2		1	1 unit	41B



3RT1946-4EA1

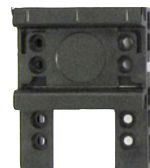
Terminal covers for cable lugs and busbar connections

For complying with the voltage clearances and as touch protection if box terminal is removed (two units required per device)

3RW304.	S3	5	3RT1946-4EA1		1	1 unit	41B
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For motor starter protectors	For soft starters	Version	SD	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
Size	Size		d					

Mounting rails for mounting contactors for the customer assembly of 3RA21 load feeders with busbar adapters for 60 mm systems



8US1998-7CB45

--	S0	For the discrete configuration of direct-on-line starters, an additional mounting rail is needed for the contactor in addition to the existing mounting rail on the busbar adapter for the motor starter protector. For pushing onto the device adapter, including fixing screws	2	8US1998-7CB45		1	10 units	14O
----	-----------	---	---	----------------------	--	---	----------	-----

Standard mounting rail adapters



3RA2932-1CA00

S2	S2	For mechanical fixing of motor starter protector and soft starter; for snapping onto standard mounting rail or for screw fixing Single-unit packaging	2	3RA2932-1CA00		1	1 unit	41B
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Switching Devices – Soft Starters and Solid-State Switching Devices

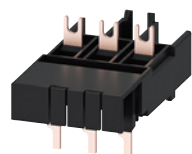
SIRIUS 3RW Soft Starters

Basic Performance Soft Starters

3RW30 soft starters > Accessories

For soft starters	Motor starter protectors	SD	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
Type	Size	Size					
			d				

Link modules to motor starter protectors¹⁾



3RA2921-1BA00

3RW301.	S00	S00	2
3RW302.	S0	S00/S0	2
3RW3036	S2	S2	▶
3RW304.	S3	S3	▶

Screw terminals



3RA2921-1BA00	1	1 unit	41B
3RA2921-1BA00	1	1 unit	41B
3RA2931-1AA00	1	1 unit	41B
3RA1941-1AA00	1	1 unit	41B

Spring-loaded terminals



3RW301.	S00	S00	2
3RW302.	S0	S0	2

3RA2911-2GA00	1	1 unit	41B
3RA2921-2GA00	1	1 unit	41B

3RA2921-2GA00

- ¹⁾ Can be used in size S0 up to 32 A.
 Can be used in size S2 up to 65 A in combination with 3RA2932-1CA00 standard mounting rail adapter (specially for soft starters).
 Can be used in size S3 only on mounting plate.

Version	Functionality Functions	Use	SD	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
			d					

Covers and push-in lugs (only for 3RW3003)



3RP1902

Sealable covers	For securing against unauthorized adjustment of setting knobs	For devices with 1 or 2 CO contacts	5
------------------------	---	-------------------------------------	---

3RP1902	1	5 units	41H
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3RP1903

Push-in lugs for screw fixing	--	For devices with 1 or 2 CO contacts	5
--------------------------------------	----	-------------------------------------	---

3RP1903	1	10 units	41H
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Version	SD	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
	d					

Tools for opening spring-loaded terminals in sizes S00 and S0



3RA2908-1A

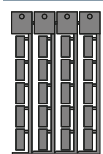
Screwdrivers	For all SIRIUS devices with spring-loaded terminals		
	Length approx. 200 mm, 3.0 mm x 0.5 mm, titanium gray/black, partially insulated	2	

Spring-loaded terminals



3RA2908-1A	1	1 unit	41B
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Blank labels



3RT2900-1SB20

Unit labeling plates¹⁾	For SIRIUS devices		
	20 mm x 7 mm, titanium gray	20	

3RT2900-1SB20	100	340 units	41B
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- ¹⁾ PC labeling systems for individual inscription of unit labeling plates are available from: murrplastik Systemtechnik GmbH (see page 16/15).

Switching Devices – Soft Starters and Solid-State Switching Devices

SIRIUS 3RW Soft Starters

Spare Parts

For 3RW55/3RW55 Failsafe

Overview

More information

Homepage, see www.siemens.com/soft-starter
 Industry Mall, see www.siemens.com/product?3RW

Industry Online Support (SIOS) topic page, see
<https://support.industry.siemens.com/cs/ww/en/view/109747404>

Selection and ordering data

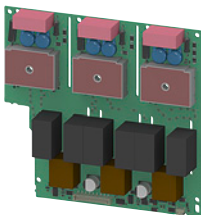
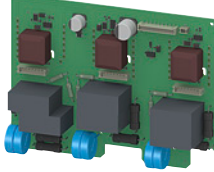
	Product designation	Manufacturer's Article No. of the soft starter	Type of product	SD	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
Power semiconductor modules									
	Power semiconductor module	3RW5524-.HA.4 (3x)	480 V, 47 A	▶	3RW5952-0SF04		1	1 unit	42S
		3RW5525-.HA.4 (3x), 3RW5526-.HA.4 (3x)	480 V, 77 A	▶	3RW5952-0SH04		1	1 unit	42S
		3RW5527-.HA.4 (3x)	480 V, 93 A	▶	3RW5952-0SJ04		1	1 unit	42S
		3RW5534-.HA.4 (3x), 3RW5535-.HA.4 (3x)	480 V, 143 A	▶	3RW5953-0SL04		1	1 unit	42S
		3RW5536-.HA.4 (3x)	480 V, 171 A	▶	3RW5953-0SM04		1	1 unit	42S
		3RW5543-.HA.4 (3x)	480 V, 210 A	▶	3RW5954-0SN04		1	1 unit	42S
		3RW5544-.HA.4 (3x)	480 V, 250 A	▶	3RW5954-0SP04		1	1 unit	42S
		3RW5545-.HA.4 (3x), 3RW5546-.HA.4 (3x)	480 V, 370 A	▶	3RW5954-0SR04		1	1 unit	42S
		3RW5547-.HA.4 (3x), 3RW5548-.HA.4 (3x)	480 V, 570 A	▶	3RW5954-0ST04		1	1 unit	42S
		3RW5552-.HA.4 (3x)	480 V, 630 A	▶	3RW5955-0SU04		1	1 unit	42S
		3RW5553-.HA.4 (3x)	480 V, 720 A	▶	3RW5955-0SV04		1	1 unit	42S
		3RW5554-.HA.4 (3x)	480 V, 840 A	▶	3RW5955-0SW04		1	1 unit	42S
		3RW5556-.HA.4 (3x)	480 V, 1 100 A	▶	3RW5955-0SX04		1	1 unit	42S
		3RW5558-.HA.4 (3x)	480 V, 1 280 A	▶	3RW5955-0SY04		1	1 unit	42S
		3RW5521-.HA.6 (3x), 3RW5524-.HA.6 (3x)	690 V, 47 A	▶	3RW5952-0SF06		1	1 unit	42S
		3RW5525-.HA.6 (3x), 3RW5526-.HA.6 (3x)	690 V, 77 A	▶	3RW5952-0SH06		1	1 unit	42S
		3RW5527-.HA.6 (3x)	690 V, 93 A	▶	3RW5952-0SJ06		1	1 unit	42S
		3RW5534-.HA.6 (3x), 3RW5535-.HA.6 (3x)	690 V, 143 A	▶	3RW5953-0SL06		1	1 unit	42S
		3RW5536-.HA.6 (3x)	690 V, 171 A	▶	3RW5953-0SM06		1	1 unit	42S
		3RW5543-.HA.6 (3x)	690 V, 210 A	▶	3RW5954-0SN06		1	1 unit	42S
		3RW5544-.HA.6 (3x)	690 V, 250 A	▶	3RW5954-0SP06		1	1 unit	42S
		3RW5545-.HA.6 (3x), 3RW5546-.HA.6 (3x)	690 V, 370 A	▶	3RW5954-0SR06		1	1 unit	42S
		3RW5547-.HA.6 (3x), 3RW5548-.HA.6 (3x)	690 V, 570 A	▶	3RW5954-0ST06		1	1 unit	42S
		3RW5552-.HA.6 (3x)	690 V, 630 A	▶	3RW5955-0SU06		1	1 unit	42S
		3RW5553-.HA.6 (3x)	690 V, 720 A	▶	3RW5955-0SV06		1	1 unit	42S
		3RW5554-.HA.6 (3x)	690 V, 840 A	▶	3RW5955-0SW06		1	1 unit	42S
		3RW5556-.HA.6 (3x)	690 V, 1 100 A	▶	3RW5955-0SX06		1	1 unit	42S
		3RW5558-.HA.6 (3x)	690 V, 1 280 A	▶	3RW5955-0SY06		1	1 unit	42S
Bypass units									
	Bypass unit	3RW552-.HA., 3RW553-.HA.	--	▶	3RW5953-0BY00		1	1 unit	42S
		3RW5543-.HA., 3RW5544-.HA., 3RW5545-.HA.	210 A to 315 A	▶	3RW5954-0BP00		1	1 unit	42S
		3RW5546-.HA., 3RW5547-.HA., 3RW5548-.HA.	370 A to 570 A	▶	3RW5954-0BT00		1	1 unit	42S
		3RW5552, 3RW5553, 3RW5554	630 A to 840 A	▶	3RW5955-0BW00		1	1 unit	42S
		3RW5556, 3RW5558	1 100 A and 1 280 A	▶	3RW5955-0BY00		1	1 unit	42S

Switching Devices – Soft Starters and Solid-State Switching Devices

SIRIUS 3RW Soft Starters

Spare Parts

For 3RW55/3RW55 Failsafe

	Product designation	Manufacturer's Article No. of the soft starter	Type of product	SD	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
					d				
Control units									
	Control unit	3RW551...-HA0., 3RW552...-HA0., 3RW553...-HA0., 3RW554...-HA0.	24 V	▶	3RW5950-1UY00		1	1 unit	42S
		3RW555...-HA0.		▶	3RW5955-1UY00		1	1 unit	42S
		3RW551...-HA1., 3RW552...-HA1., 3RW553...-HA1., 3RW554...-HA1.	110 ... 250 V	▶	3RW5950-1UY10		1	1 unit	42S
		3RW555...-HA1.		▶	3RW5955-1UY10		1	1 unit	42S
Printed circuit boards									
	Printed circuit boards	3RW5513...-HA.4	480 V, 13 A	▶	3RW5951-0PA04		1	1 unit	42S
		3RW5514...-HA.4	480 V, 18 A	▶	3RW5951-0PB04		1	1 unit	42S
		3RW5515...-HA.4	480 V, 25 A	▶	3RW5951-0PC04		1	1 unit	42S
		3RW5516...-HA.4	480 V, 32 A	▶	3RW5951-0PD04		1	1 unit	42S
		3RW5517...-HA.4	480 V, 38 A	▶	3RW5951-0PE04		1	1 unit	42S
		3RW552...-HA.4, 3RW553...-HA.4	480 V	▶	3RW5953-0PY04		1	1 unit	42S
		3RW554...-HA.4	480 V	▶	3RW5954-0PY04		1	1 unit	42S
		3RW5513...-HA.5	600 V, 13 A	▶	3RW5951-0PA05		1	1 unit	42S
		3RW5514...-HA.5	600 V, 18 A	▶	3RW5951-0PB05		1	1 unit	42S
		3RW5515...-HA.5	600 V, 25 A	▶	3RW5951-0PC05		1	1 unit	42S
		3RW5516...-HA.5	600 V, 32 A	▶	3RW5951-0PD05		1	1 unit	42S
		3RW5517...-HA.5	600 V, 38 A	▶	3RW5951-0PE05		1	1 unit	42S
		3RW552...-HA.6, 3RW553...-HA.6	690 V	▶	3RW5953-0PY06		1	1 unit	42S
		3RW554...-HA.6	690 V	▶	3RW5954-0PY06		1	1 unit	42S
		3RW555...-HA.4	480 V	▶	3RW5955-0PY14		1	1 unit	42S
		3RW555...-HA.6	690 V	▶	3RW5955-0PY16		1	1 unit	42S
	TSE printed circuit boards	3RW555...-HA.4	480 V	▶	3RW5955-0PY24		1	1 unit	42S
		3RW555...-HA.6	690 V	▶	3RW5955-0PY26		1	1 unit	42S
Fans									
	Fan	3RW551 (1x), 3RW552 (2x), 3RW553 (2x)	--	▶	3RW5983-0FF00		1	1 unit	42S
		3RW554 (1x)	--	▶	3RW5984-0FF00		1	1 unit	42S
		3RW555 (3x)	--	▶	3RW5985-0FF00		1	1 unit	42S
Terminals and terminal covers									
	Box terminal block	3RW552 (2x)	--	▶	3RW5982-0TB00		1	1 unit	42S
	Removable control terminals	3RW551...-1H... (2x), 3RW552...-1H... (2x), 3RW553...-6H... (2x), 3RW554...-6H... (2x), 3RW555...-6H... (2x)	contains 2 blocks each with 6 terminals	▶	Screw terminals 		1	1 unit	42S
		3RW551...-3H... (2x), 3RW552...-3H... (2x), 3RW553...-2H... (2x), 3RW554...-2H... (2x), 3RW555...-2H... (2x)	contains 2 blocks each with 6 terminals	▶	Spring-loaded terminals 		1	1 unit	42S
	Terminal cover	3RW555	--	▶	3RW5955-0TC20		1	1 unit	42S

Switching Devices – Soft Starters and Solid-State Switching Devices

SIRIUS 3RW Soft Starters

Spare Parts

For 3RW55/3RW55 Failsafe

Product designation	Manufacturer's Article No. of the soft starter	Type of product	SD	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
Enclosure components								
 3RW5953-0GB00	Enclosure base	3RW552..-HA..	--	▶	3RW5953-0GB00	1	1 unit	42S
		3RW553..-HA..	--	▶	3RW5954-0GB00	1	1 unit	42S
		3RW554..-HA..	--	▶	3RW5954-0GB00	1	1 unit	42S
 3RW5955-0GC00	Ventilation cover	3RW555 (3x)	--	▶	3RW5955-0GC00	1	1 unit	42S
 3RW5950-0GD20	Cover for control cable duct	3RW55..-HA..	Titanium gray	▶	3RW5950-0GD20	1	1 unit	42S
 3RW5950-0GD30		3RW55..-HF..	Yellow NEW	▶	3RW5950-0GD30	1	1 unit	42S
 3RW5954-0GF00	Front cover	3RW554..-HA..	--	▶	3RW5954-0GF00	1	1 unit	42S
		3RW555	--	▶	3RW5955-0GF00	1	1 unit	42S
 3RW5950-0GL30	Hinged cover	3RW55	With cutout for High Feature HMI module	▶	3RW5950-0GL30	1	1 unit	42S

Switching Devices – Soft Starters and Solid-State Switching Devices

SIRIUS 3RW Soft Starters

Spare Parts

For 3RW55/3RW55 Failsafe

	Product designation	Manufacturer's Article No. of the soft starter	Type of product	SD	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
HMI modules									
 3RW5980-0HF00	HMI module	3RW55	High Feature	▶	3RW5980-0HF00		1	1 unit	42S
	Interface cover	3RW55	--	▶	3RW5980-0HL00		1	1 unit	42S
Connection cable for installing the HMI module in the soft starter									
 3UF7931-0AA00-0	Connection cable	--	0.1 m, flat	▶	3UF7931-0AA00-0		1	1 unit	42J
Transport packaging									
 3RW5953-0VY00	Transport packaging	3RW551	--	▶	3RW5951-0VY00		1	1 unit	42S
		3RW552, 3RW553	--	▶	3RW5953-0VY00		1	1 unit	42S
		3RW554	--	▶	3RW5954-0VY00		1	1 unit	42S
		3RW555	--	▶	3RW5955-0VY00		1	1 unit	42S

Switching Devices – Soft Starters and Solid-State Switching Devices

SIRIUS 3RW Soft Starters

Spare Parts

For 3RW52

Overview

More information

Homepage, see www.siemens.com/soft-starter
 Industry Mall, see www.siemens.com/product?3RW

Industry Online Support (SIOS) topic page, see
<https://support.industry.siemens.com/cs/ww/en/view/109747404>

Selection and ordering data

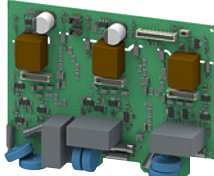
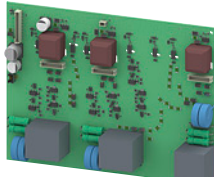
	Product designation	Manufacturer's Article No. of the soft starter	Type of product	SD	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
				d					
Power semiconductor modules									
 3RW5952-0SF04	Power semiconductor module	3RW5224-..C.4 (3x)	480 V, 47 A	▶	3RW5952-0SF04		1	1 unit	42S
		3RW5225-..C.4 (3x), 3RW5226-..C.4 (3x)	480 V, 77 A	▶	3RW5952-0SH04		1	1 unit	42S
		3RW5227-..C.4 (3x)	480 V, 93 A	▶	3RW5952-0SJ04		1	1 unit	42S
		3RW5234-..C.4 (3x), 3RW5235-..C.4 (3x)	480 V, 143 A	▶	3RW5953-0SL04		1	1 unit	42S
		3RW5236-..C.4 (3x)	480 V, 171 A	▶	3RW5953-0SM04		1	1 unit	42S
		3RW5224-..C.5 (3x)	600 V, 47 A	▶	3RW5952-0SF05		1	1 unit	42S
		3RW5225-..C.5 (3x), 3RW5226-..C.5 (3x)	600 V, 77 A	▶	3RW5952-0SH05		1	1 unit	42S
		3RW5227-..C.5 (3x)	600 V, 93 A	▶	3RW5952-0SJ05		1	1 unit	42S
		3RW5234-..C.5 (3x), 3RW5235-..C.5 (3x)	600 V, 143 A	▶	3RW5953-0SL05		1	1 unit	42S
		3RW5236-..C.5 (3x)	600 V, 171 A	▶	3RW5953-0SM05		1	1 unit	42S
		3RW5243 (3x)	600 V, 210 A	▶	3RW5924-0SN05		1	1 unit	42S
		3RW5244 (3x), 3RW5245 (3x)	600 V, 315 A	▶	3RW5924-0SQ05		1	1 unit	42S
		3RW5246 (3x), 3RW5247 (3x)	600 V, 470 A	▶	3RW5924-0SS05		1	1 unit	42S
		3RW5248 (3x)	600 V, 570 A	▶	3RW5924-0ST05		1	1 unit	42S
 3RW5953-0SM05									
 3RW5924-0ST05									
Bypass units									
 3RW5953-0BY00	Bypass unit	3RW522, 3RW523	--	▶	3RW5953-0BY00		1	1 unit	42S
		3RW5243, 3RW5244, 3RW5245	210 A to 315 A	▶	3RW5954-0BP00		1	1 unit	42S
		3RW5246, 3RW5247, 3RW5248	370 A to 570 A	▶	3RW5954-0BT00		1	1 unit	42S
Control units									
 3RW5920-1UA00	Control unit	3RW52...-AC0.	24 V analog output	▶	3RW5920-1UA00		1	1 unit	42S
		3RW52...-AC1.	110 ... 250 V analog output	▶	3RW5920-1UA10		1	1 unit	42S
		3RW52...-TC0.	24 V thermistor input	▶	3RW5920-1UT00		1	1 unit	42S
		3RW52...-TC1.	110 ... 250 V thermistor input	▶	3RW5920-1UT10		1	1 unit	42S

Switching Devices – Soft Starters and Solid-State Switching Devices

SIRIUS 3RW Soft Starters

Spare Parts

For 3RW52

Product designation	Manufacturer's Article No. of the soft starter	Type of product	SD	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
d								
Printed circuit boards								
	Printed circuit board	3RW5213-..C.4	480 V, 13 A	▶	3RW5921-0PA04	1	1 unit	42S
		3RW5214-..C.4	480 V, 18 A	▶	3RW5921-0PB04	1	1 unit	42S
		3RW5215-..C.4	480 V, 25 A	▶	3RW5921-0PC04	1	1 unit	42S
		3RW5216-..C.4	480 V, 32 A	▶	3RW5921-0PD04	1	1 unit	42S
		3RW5217-..C.4	480 V, 38 A	▶	3RW5921-0PE04	1	1 unit	42S
		3RW522-..C.4, 3RW523-..C.4	480 V	▶	3RW5923-0PY04	1	1 unit	42S
		3RW524-..C.4	480 V	▶	3RW5924-0PY04	1	1 unit	42S
		3RW5213-..C.5	600 V, 13 A	▶	3RW5921-0PA05	1	1 unit	42S
		3RW5214-..C.5	600 V, 18 A	▶	3RW5921-0PB05	1	1 unit	42S
		3RW5215-..C.5	600 V, 25 A	▶	3RW5921-0PC05	1	1 unit	42S
		3RW5216-..C.5	600 V, 32 A	▶	3RW5921-0PD05	1	1 unit	42S
		3RW5217-..C.5	600 V, 38 A	▶	3RW5921-0PE05	1	1 unit	42S
		3RW522-..C.5, 3RW523-..C.5	600 V	▶	3RW5923-0PY05	1	1 unit	42S
		3RW524-..C.5	600 V	▶	3RW5924-0PY05	1	1 unit	42S
Fans								
	Fans	3RW5216/17 (1x), 3RW5226/27 (2x), 3RW523 (2x)	--	▶	3RW5983-0FF00	1	1 unit	42S
		3RW524 (1x)	--	▶	3RW5984-0FF00	1	1 unit	42S
Terminals								
	Box terminal block	3RW522 (2x)	--	▶	3RW5982-0TB00	1	1 unit	42S
	Removable control terminals	3RW521-1.C.., 3RW522-1.C.., 3RW523-6.C.., 3RW524-6.C..	contains 2 blocks each with 6 terminals	▶	Screw terminals  3RW5980-1TR00	1	1 unit	42S
		3RW521-3.C.., 3RW522-3.C.., 3RW523-2.C.., 3RW524-2.C..	contains 2 blocks each with 6 terminals	▶	Spring-loaded terminals  3RW5980-2TR00	1	1 unit	42S
Enclosure components								
	Enclosure base	3RW522, 3RW523	--	▶	3RW5953-0GB00	1	1 unit	42S
		3RW524	--	▶	3RW5954-0GB00	1	1 unit	42S
	Cover for control cable duct	3RW52	Titanium gray	▶	3RW5950-0GD20	1	1 unit	42S

Switching Devices – Soft Starters and Solid-State Switching Devices

SIRIUS 3RW Soft Starters

Spare Parts

For 3RW52

Product designation	Manufacturer's Article No. of the soft starter	Type of product	SD	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
Enclosure components								
 3RW5954-0GF00	Front cover	3RW524	--	▶ 3RW5954-0GF00		1	1 unit	42S
	Hinged cover	3RW52	Without cutout	▶ 3RW5950-0GL20		1	1 unit	42S
Transport packaging								
 3RW5953-0VY00	Transport packaging	3RW521	--	▶ 3RW5951-0VY00		1	1 unit	42S
		3RW522, 3RW523	--	▶ 3RW5953-0VY00		1	1 unit	42S
		3RW524	--	▶ 3RW5954-0VY00		1	1 unit	42S

Switching Devices – Soft Starters and Solid-State Switching Devices

SIRIUS 3RW Soft Starters

Spare Parts

For 3RW50 **NEW**

Overview

More information

Homepage, see www.siemens.com/soft-starter
Industry Mall, see www.siemens.com/product?3RW

Industry Online Support (SIOS) topic page, see
<https://support.industry.siemens.com/cs/ww/en/view/109747404>

Selection and ordering data

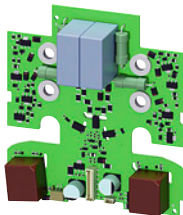
	Product designation	Manufacturer's Article No. of the soft starter	Type of product	SD	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
d									
Power semiconductor modules									
	Power semiconductor module	3RW505-..B.4 (2x)	480 V, 171 A	▶	3RW5953-0SL04		1	1 unit	42S
		3RW505-..B.5 (2x)	600 V, 171 A	▶	3RW5953-0SL05		1	1 unit	42S
		3RW5072 (2x)	600 V, 210 A	▶	3RW5924-0SN05		1	1 unit	42S
		3RW5073 (2x), 3RW5074 (2x)	600 V, 315 A	▶	3RW5924-0SQ05		1	1 unit	42S
		3RW5075 (2x), 3RW5076 (2x)	600 V, 470 A	▶	3RW5924-0SS05		1	1 unit	42S
		3RW5077 (2x)	600 V, 570 A	▶	3RW5924-0ST05		1	1 unit	42S
Bypass units									
 	Bypass unit	3RW505	--	▶	3RW5905-0BY00		1	1 unit	42S
		3RW5072, 3RW5073, 3RW5074	210 ... 315 A	▶	3RW5907-0BQ00		1	1 unit	42S
		3RW5075, 3RW5076, 3RW5077	370 ... 570 A	▶	3RW5907-0BY00		1	1 unit	42S
Control units									
	Control unit	Analog output	3RW505-..AB0.	24 V	▶	3RW5905-1UA00	1	1 unit	42S
			3RW505-..AB1.	110 ... 250 V	▶	3RW5905-1UA10	1	1 unit	42S
			3RW507-..AB0.	24 V	▶	3RW5907-1UA00	1	1 unit	42S
			3RW507-..AB1.	110 ... 250 V	▶	3RW5907-1UA10	1	1 unit	42S
	Thermistor input	3RW505-..TB0.	24 V	▶	3RW5905-1UT00	1	1 unit	42S	
		3RW505-..TB1.	110 ... 250 V	▶	3RW5905-1UT10	1	1 unit	42S	
		3RW507-..TB0.	24 V	▶	3RW5907-1UT00	1	1 unit	42S	
		3RW507-..TB1.	110 ... 250 V	▶	3RW5907-1UT10	1	1 unit	42S	

Switching Devices – Soft Starters and Solid-State Switching Devices

SIRIUS 3RW Soft Starters

Spare Parts

NEW For 3RW50

Product designation	Manufacturer's Article No. of the soft starter	Type of product	SD	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
d								
Printed circuit boards								
	Printed circuit board	3RW505-..B.4	480 V	▶	3RW5905-0PY04	1	1 unit	42S
		3RW507-..B.4	480 V	▶	3RW5907-0PY04	1	1 unit	42S
		3RW505-..B.5	600 V	▶	3RW5905-0PY05	1	1 unit	42S
		3RW507-..B.5	600 V	▶	3RW5907-0PY05	1	1 unit	42S
3RW5905-0PY04								
Fan								
	Fan	3RW505 (1x)	--	▶	3RW5905-0FF00	1	1 unit	42S
		3RW507 (1x)	--	▶	3RW5907-0FF00	1	1 unit	42S
3RW5905-0FF00								
Terminals								
	Removable control terminals	3RW50...-6.B..	contains 2 blocks each with 6 terminals	▶	Screw terminals 	1	1 unit	42S
					3RW5980-1TR00			
		3RW50...-2.B..	contains 2 blocks each with 6 terminals	▶	Spring-loaded terminals 	1	1 unit	42S
					3RW5980-2TR00			
3RW5980-1TR00								
Enclosure components								
	Enclosure base	3RW505	--	▶	3RW5905-0GB00	1	1 unit	42S
		3RW507	--	▶	3RW5907-0GB00	1	1 unit	42S
3RW5905-0GB00								
	Hinged cover	3RW50	--	▶	3RW5900-0GL00	1	1 unit	42S
3RW5900-0GL00								
Transport packaging								
	Transport packaging	3RW505	--	▶	3RW5905-0VY00	1	1 unit	42S
		3RW507	--	▶	3RW5907-0VY00	1	1 unit	42S
3RW5905-0VY00								