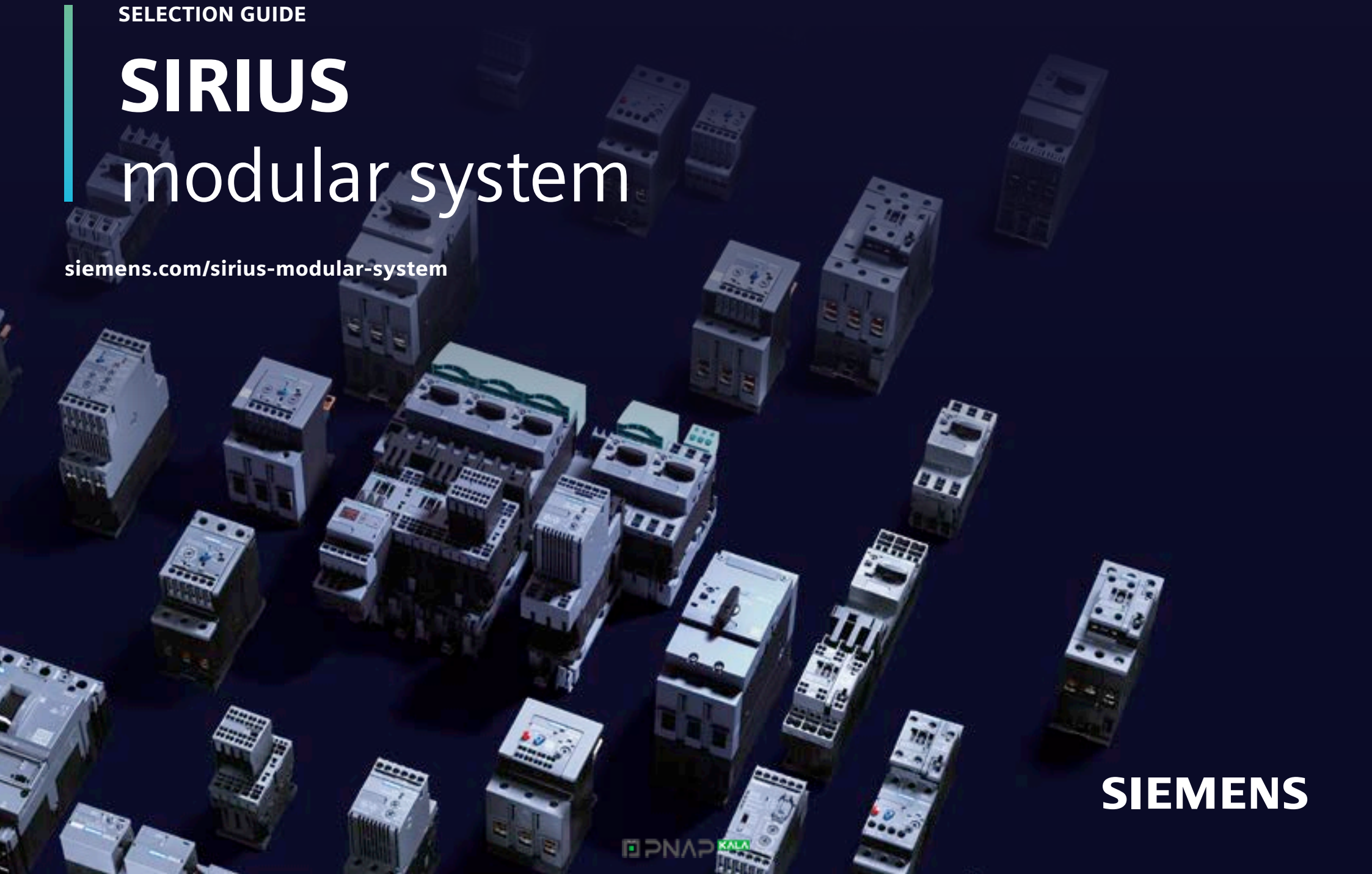


SELECTION GUIDE

SIRIUS

modular system

[siemens.com/sirius-modular-system](https://www.siemens.com/sirius-modular-system)



SIEMENS

EFFICIENTLY COMBINED

Everything for the control cabinet: **SIRIUS modular system**

Possible combinations depending on requirement:

Load feeders:
Direct start (p. 3 – 5)

Motor starter protector
for motor protection (S00 to S3)

+

Link module (S00 to S3)

+

Contactor (S00 to S3)

+

Monitoring relays (up to S2)
or overload relays

Thermally delayed Electronic Analogically adjustable Digitally adjustable

Load feeders:
Soft start, solid-state contactors (p. 6 – 7)

Motor starter protector
for motor protection (S00 to S3)

+

Link module (S00 to S3)

+

3RW30 or 3RW40
soft starters

+

Solid-state contactors
(S00 and S0)

For frequently switching AC drives on and off,
our motor starter protectors can also be combined
with solid-state contactors or reversing contactors
and an overload relay.



Advantages at a glance:

Load feeders:

easy to implement up to 250 kW/400 V from standard devices with motor starter protectors for motor protection, contactors, overload relays and monitoring relays

Modular design:

a host of combination options in standardized design

Variants and sizes:

seven compact sizes

Installation:

quick and easy installation of feeders thanks to link modules

Accessories:

low variance with uniform accessories

Connection types:

screw and spring-type terminals available

IE3/IE4 ready:

familiar reliability even when changing over to IE3/IE4 motors

Application monitoring:

mountable monitoring relay for simple application monitoring beyond the motor

Accessories

3RV motor starter protectors/circuit breakers

Size	Mountable accessories	Design	Screw terminals	Spring-type terminals
S00, S0, S2, S3	Transverse auxiliary switch	1CO	3RV2901-1D	–
	Lateral (left) auxiliary switch	1NO+1NC	3RV2901-1E	3RV2901-2E
	Lateral (right) auxiliary switch	1NO+1NC	3RV2901-1A	3RV2901-2A
	Signaling switch	2NO	3RV2901-1B	3RV2901-2B
	Shunt release	1NO+1NC	3RV2921-1M	3RV2921-2M
	Undervoltage release	210 ... 240V AC	3RV2902-1DP0	3RV2902-2DP0
		24 V DC	3RV2902-1DB0	3RV2902-2DB0
	Door-coupling rotary op. mech.	230 V AC	3RV2902-1AP0	3RV2902-2AP0
		24 V DC	3RV2902-1AB4	–
	130 mm shaft	Black		3RV2926-0B
Red/yellow			3RV2926-0C	
S00, S0	Molded-plas. encl. f. surf. mounting	54 mm wide	3RV1923-1CA00	
		72 mm wide	3RV1923-1DA00	
S2	IP55, black	82 mm wide	3RV1933-1DA00	
S00, S0	Molded-plas. encl. f. surf. mounting	54 mm wide	3RV1923-1FA00	
		72 mm wide	3RV1923-1GA00	
S2	IP55, EMERG. STOP	82 mm wide	3RV1933-1GA00	

3RV29 infeed system

For sizes S00 and S0, the simplest method is to connect the components via the associated SIRIUS 3RV29 infeed system in each case.

3-phase busbar for two motor starter protectors size S00/S0

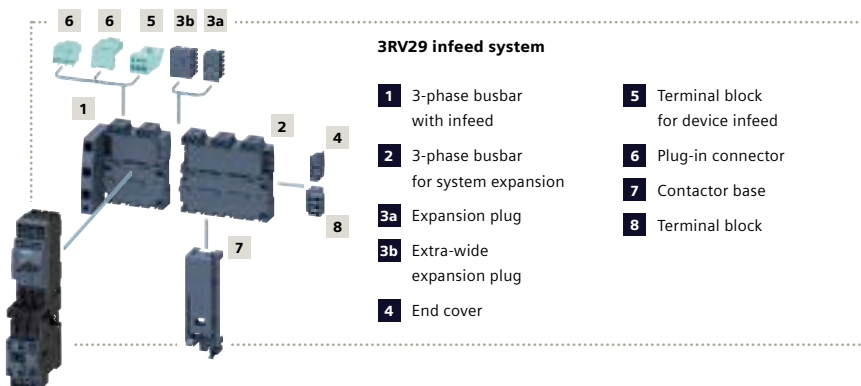
With infeed on the left (incl. 3RV2917-6A end cover)	3RV2917-1A
With infeed on the right (incl. 3RV2917-6A end cover)	3RV2917-1E
For system expansion (incl. 3RV2917-5BA00 expansion plug)	3RV2917-4A

Plug-in connectors for contact with motor starter protectors

Size S00	Screw terminals	3RV2917-5CA00
	Spring-type terminals	3RV2917-5AA00
Size S0	Screw terminals	3RV1927-5AA00
	Spring-type terminals	3RV2927-5AA00

Contactor base for contactors size S00, S0

3RV2927-7AA00

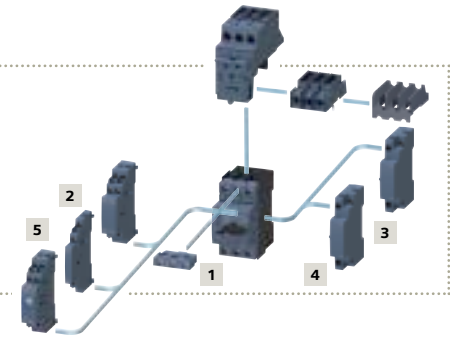


3RV29 infeed system

- 1** 3-phase busbar with infeed
- 2** 3-phase busbar for system expansion
- 3a** Expansion plug
- 3b** Extra-wide expansion plug
- 4** End cover
- 5** Terminal block for device infeed
- 6** Plug-in connector
- 7** Contactor base
- 8** Terminal block

Mountable accessories for 3RV motor starter protectors

- 1** Transverse auxiliary switch
- 2** Lateral auxiliary switch with two contacts
- 3** Shunt release (cannot be used for 3RV21 motor starter protector)
- 4** Undervoltage release without/with leading contacts (cannot be used for 3RV21 motor starter protector)
- 5** Signaling switch (cannot be used for 3RV27 and 3RV28 circuit breakers)



Contactors

Auxiliary switch blocks, on front S00, S0, S2, S3	Screw terminals	Spring-type terminals
1NC	3RH2911-1HA01	3RH2911-2HA01
1NO+1NC	3RH2911-1HA11	3RH2911-2HA11
2NO+2NC	3RH2911-1HA22	3RH2911-2HA22
1NO	3RH2911-1HA10	3RH2911-2HA10
2NO	3RH2911-1HA20	3RH2911-2HA20

Surge suppressors

Size S00		Plug-in
Without LED	Varistor	3RT2916-1BD00
With LED	127 ... 240 V AC	3RT2916-1JL00
Without LED	RC element	3RT2916-1CD00
	127 ... 240 V AC	
Without LED	Suppr. diode 24 V DC	3RT2916-1DG00
Size S0		
Without LED	Varistor	3RT2926-1BD00
With LED	127 ... 240 V AC	3RT2926-1JL00
Without LED	RC element	3RT2926-1CD00
	127 ... 240 V AC	
Without LED	Diode assy. 24 V DC	3RT2926-1ER00
Size S2		
Without LED	Varistor	3RT2936-1BD00
With LED	AC 127 ... 240 V	3RT2936-1JL00
Without LED	RC element	3RT2936-1CD00
	127 ... 240 V AC	
Size S3		
Without LED	Varistor	3RT2936-1BD00
With LED	127 ... 240 V AC	3RT2936-1JL00
Without LED	RC element	3RT2946-1CD00
	127 ... 240 V AC	

Without LED	Varistor	3RT2936-1BD00
With LED	127 ... 240 V AC	3RT2936-1JL00
Without LED	RC element	3RT2946-1CD00
	127 ... 240 V AC	

Coil terminal module

	Size S0 – S3	Size S0
Connection from below	3RT2926-4RB11	3RT2926-4RB12

Overload relays and monitoring relays

Terminal supports f. stand-alone inst.	Screw terminals	Spring-type terminals
S00	3RU2916-3AA01	3RU2916-3AC01
S0	3RU2926-3AA01	3RU2926-3AC01
S2	3RU2936-3AA01	–
S3	3RU2946-3AA01	–

Wiring kit for contactors

Reversing contactor assembly

S00	3RA2913-2AA1	3RA2913-2AA2
S0	3RA2923-2AA1	3RA2923-2AA2 (main circuit only)
S2	3RA2933-2AA1	3RA2933-2AA2 (main circuit only)
S3	3RA2943-2AA1	3RA2943-2AA2 (main circuit only)

Contactor assy. f. wye-delta start

S00	3RA2913-2BB1	3RA2913-2BB2
S0	3RA2923-2BB1	3RA2923-2BB2 (main circuit only)
S2	3RA2933-2BB1	3RA2933-2BB2*
S3	3RA2943-2BB1	3RA2943-2BB2*

Wye-delta function module, plug-in



Comprising one basic module and two coupling modules, rated control supply voltage 24 ... 240 V AC/DC, time setting range 0.5 ... 60 s (10, 30, 60 s selectable)

S00, S0, S2, S3 3RA2816-0EW20

* main circuit only, set of cables for auxiliary circuit

Load feeders for direct start

Load feeders start loads by a combination of protection and switching functions. A load feeder assembly consisting of motor starter protector, contactor, overload relay or monitoring relay offers suitable combinations for every application.



Mot. starter prot.

Contactors

Overload relays

Monitoring relays

Three-phase motor		Setting range CLASS 10		Solenoid voltage		Aux. switch		Thermally delayed CLASS 10		Electronic CLASS 10E		Meas. range [A]		2-phase Basic, analogically adjustable		3-phase Standard, digitally adjustable																																									
Power [kW]	Current [A]	[A]								Setting range [A]		Supply voltage 24 – 240 V AC/DC																																													
Size, width		S00, 45 mm																																																							
0.09	0.32	0.22 – 0.32	3RV2011-0DA	*1	230 V AC, 50/60 Hz	1NO	3RT2015- AP01	3RU2116-0D	0.1 – 0.4	3RB3016-1R																																															
0.12	0.5	0.35 – 0.5	3RV2011-0FA								24 V DC	1NC	3RT2015- AP02	3RU2116-0F	0.32 – 1.25	3RB3016-1N																																									
0.18	0.63	0.45 – 0.63	3RV2011-0GA														230 V AC, 50/60 Hz	1NO	3RT2015- BB41	3RU2116-0G	1 – 4	3RB3016-1P																																			
0.25	1	0.7 – 1	3RV2011-0JA																				24 V DC	1NC	3RT2015- BB42	3RU2116-0J	3 – 12	3RB3016-1S																													
0.37	1.25	0.9 – 1.25	3RV2011-0KA																										230 V AC, 50/60 Hz	1NO	3RT2016- AP01	3RU2116-0K	1.6 – 16	3RR2141- AW30	3RR2241- FW30																						
0.55	1.6	1.1 – 1.6	3RV2011-1AA																																	24 V DC	1NC	3RT2016- AP02	3RU2116-1A																		
0.75	2	1.4 – 2	3RV2011-1BA																																					230 V AC, 50/60 Hz	1NO	3RT2016- BB41	3RU2116-1B														
1.1	3.2	2.2 – 3.2	3RV2011-1DA																																									24 V DC	1NC	3RT2016- BB42	3RU2116-1D										
1.5	4	2.8 – 4	3RV2011-1EA																																													230 V AC, 50/60 Hz	1NO	3RT2017- AP01	3RU2116-1E						
2.2	6.3	4.5 – 6.3	3RV2011-1GA																																																	24 V DC	1NC	3RT2017- AP02	3RU2116-1G		
3	8	5.5 – 8	3RV2011-1HA	230 V AC, 50/60 Hz	1NO	3RT2017- BB41	3RU2116-1H																																																		
4	10	7 – 10	3RV2011-1JA	24 V DC	1NC	3RT2017- BB42	3RU2116-1J																																																		
5.5	12.5	9 – 12.5	3RV2011-1KA	230 V AC, 50/60 Hz	1NO	3RT2017- AP01	3RU2116-1K																																																		
7.5	16	11 – 16	3RV2011-4AA	24 V DC	1NO	3RT2017- AP02	3RU2116-1L																																																		
								230 V AC, 50/60 Hz	1NO	3RT2018- AP01	3RU2116-4A																																														
				230 V AC, 50/60 Hz		1NO		3RT2018- AP02		3RU2116-4B																																															
				24 V DC		1NC		3RT2018- BB41		3RB3016-1T																																															
				230 V AC, 50/60 Hz		1NO		3RT2018- BB42		3RB3016-1U																																															
				24 V DC		1NC		3RT2018- BB42		3RB3016-1V																																															

Screw terminals: 1
Spring-type term. to 32 A: 2

Screw terminals: 1
Spring-type term.: 2

Screw terminals: B
Spring-type term.: C

Screw terminals: B
Spring-type term.: E

Screw terminals: 1
Spring-type term.: 2

			Mot. starter prot.		Contactors			Overload relays		Monitoring relays								
Three-phase motor		Setting range CLASS 10			Solenoid voltage	Aux. switch		Thermally delayed CLASS 10	Electronic CLASS 10E	2-phase Basic, analogically adjustable		3-phase Standard, digitally adjustable						
Power [kW]	Current [A]	[A]							Setting range [A]	Meas. range [A]	Supply voltage 24 – 240 V AC/DC							
Size, width			S0, 55 mm															
7.5	16	10 – 16	3RV2021-4AA 0	*2	230 V AC, 50 Hz 24 V DC	1NO+1NC	3RT2025- AP00	3RU2126-4A 0	10 – 40	3RB3026-1V 0	4 – 40	3RR2142- AW30	3RR2242- FW30					
7.5	20	13 – 20	3RV2021-4BA 0			1NO+1NC	3RT2025- BB40	3RU2126-4B 0										
11	22	16 – 22	3RV2021-4CA 0		230 V AC, 50 Hz 24 V DC	1NO+1NC	3RT2026- AP00	3RU2126-4C 0										
11	25	18 – 25	3RV2021-4DA 0	*2		1NO+1NC	3RT2026- BB40	3RU2126-4D 0										
15	28	23 – 28	3RV2021-4NA 0		230 V AC, 50 Hz 24 V DC	1NO+1NC	3RT2027- AP00	3RU2126-4N 0										
15	32	27 – 32	3RV2021-4EA 0	*2		1NO+1NC	3RT2027- BB40	3RU2126-4E 0										
18.5	36	30 – 36	3RV2021-4PA 1 0		230 V AC, 50 Hz	1NO+1NC	3RT2028- AP00	3RU2126-4P 0	10 – 40	3RB3026-1V 0	4 – 40	3RR2142- AW30	3RR2242- FW30					
18.5	40	34 – 40	3RV2021-4FA 1 0	*2	24 V DC	1NO+1NC	3RT2028- BB40	3RU2126-4F 0										
			Screw terminals: 1 Spring-type term. to 32 A: 2				Screw terminals: 1 Spring-type term.: 2		Screw terminals: B Spring-type term.: C		Screw terminals: B Spring-type term.: E		Screw terminals: 1 Spring-type term.: 2					
Size, width			S2, 55 mm															
18.5	36	28 – 36	3RV203 -4PA10	*3	230 V AC, 50 Hz	1NO+1NC	3RT2035- AP00	3RU2136-4EB0	20 – 80	3RB3036-1W	8 – 80	3RR2143- AW30	3RR2243- FW30					
18.5	40	32 – 40	3RV203 -4JA10		20 – 33 V AC/DC	1NO+1NC	3RT2035- NB30	3RU2136-4FB0										
22	45	35 – 45	3RV203 -4VA10	*3	230 V AC, 50 Hz	1NO+1NC	3RT2036- AP00	3RU2136-4GB0										
22	52	42 – 52	3RV203 -4WA10		20 – 33 V AC/DC	1NO+1NC	3RT2036- NB30	3RU2136-4HB0										
30	59	49 – 59	3RV203 -4XA10	*3	230 V AC, 50 Hz	1NO+1NC	3RT2037- AP00	3RU2136-4QB0										
30	65	54 – 65	3RV203 -4JA10	*3	20 – 33 V AC/DC	1NO+1NC	3RT2037- NB30	3RU2136-4JB0										
37	73	62 – 73	3RV203 -4KA10	*3	230 V AC, 50 Hz	1NO+1NC	3RT2038- AP00	3RU2136-4KB0	20 – 80	3RB3036-1W	8 – 80	3RR2143- AW30	3RR2243- FW30					
37	80	70 – 80	3RV203 -4RA10		20 – 33 V AC/DC	1NO+1NC	3RT2038- NB30	3RU2136-4RB0										
			Standard switching cap. 65 kA: 1 Increased switching cap. 100 kA: 2				Screw terminals: 1 Spring-type term. in aux. circuit: 3		Contactor mounting Straight-through transf.		Screw terminals: B 0 Spring-type term.: D 0		Screw terminals: 1 Spring-type term.: 3					
Size, width			S3, 70 mm															
20	50	36 – 50	3RV204 -4HA10	*4	230 V AC, 50 Hz	1NO+1NC	3RT2045- AP00	3RU2146-4HB0	32 – 115	3RB3046-1X								
30	63	45 – 63	3RV204 -4JA10			20 – 33 V AC/DC	1NO+1NC	3RT2045- NB30						3RU2146-4JB0				
37	75	57 – 75	3RV204 -4KA10				1NO+1NC	3RT2046- AP00						3RU2146-4KB0				
45	84	65 – 84	3RV204 -4RA10		*4	230 V AC, 50 Hz 20 – 33 V AC/DC	1NO+1NC	3RT2046- NB30						3RU2146-4LB0				
45	93	75 – 93	3RV204 -4YA10	*4	230 V AC, 50 Hz	1NO+1NC	3RT2047- AP00	3RU2146-4MB0						32 – 115	3RB3046-1X			
45/55	100	80 – 100	3RV204 -4MA10		20 – 33 V AC/DC	1NO+1NC	3RT2047- NB30	3RU2146-4NB0										
			Standard switching cap. 65 kA: 1 Increased switching cap. 100 kA: 2				Screw terminals: 1 Spring-type term. in aux. circuit: 3		Contactor mounting Straight-through transf.		Screw terminals: B 0 Spring-type term.: D 0		Screw terminals: 1 Spring-type term.: 3					

Necessary accessories: link module from motor starter protector to contactor

Size			Screw terminals	Spring-type terminals (only for S00 and S0)
S00 up to max. 32 A	AC/DC	*1	3RA1921-1DA00	3RA2911-2AA00
S0 up to max. 32 A	AC	*2	3RA2921-1AA00	3RA2921-2AA00
S0 up to max. 32 A	DC	*2	3RA2921-1BA00	3RA2921-2AA00
S2 up to max. 65 A	AC/DC	*3	3RA2931-1AA00	-
S3	AC/DC	*4	3RA1941-1AA00	-

Mot. starter prot.			3RW30 soft starters without overload protection		3RW40 soft starters with overload protection		
Three-phase motor	Setting range CLASS 10		Rated operational current				
Power [kW]	Current [A]	[A]	[A]				
Size, width S2, 55 mm							
18.5	36	28 – 36	3RV203 -4PA10	*3 45	3RW3036-1BB 4	3RW4036-1BB 4	
18.5	40	32 – 40	3RV203 -4UA10				
22	45	35 – 45	3RV203 -4VA10				
22	52	42 – 52	3RV203 -4WA10	*3 63	3RW3037-1BB 4	3RW4037-1BB 0	
30	59	49 – 59	3RV203 -4XA10				
30	65	54 – 65	3RV203 -4JA10				
37	73	62 – 73	3RV203 -4KA10	*3 72	3RW3038-1BB 4	3RW4038-1BB 4	
37	80	70 – 80	3RV203 -4RA10				
Size, width S3, 70 mm							
22	50	36 – 50	3RV204 -4HA10	*4 80	3RW3046-1BB 4	3RW4046-1BB 4	
30	63	45 – 63	3RV204 -4JA10				
37	75	57 – 75	3RV204 -4KA10				
45	84	65 – 84	3RV204 -4RA10	*4 106	3RW3047-1BB 4	3RW4047-1BB 4	
45	93	75 – 93	3RV204 -4YA10				
45/55	100	80 – 100	3RV204 -4MA10				
Standard switching cap. 65 kA at 400 V:			1	24 V AC/DC:	0	24 V AC/DC:	0
Increased switching cap. 100 kA at 400 V:			2	110–230 V AC/DC:	1	110–230 V AC/DC:	1

Necessary accessories: link modules from motor starter protector to soft starter/solid-state device

Size	Screw terminals	Spring-type terminals only for S00, S0 with soft starters
S00	*2 3RA2921-1BA00	3RA2911-2GA00
S0 up to max. 32 A	*2 3RA2921-1BA00	3RA2921-2GA00
S2 up to max. 65 A	*3 3RA2931-1AA00	–
S3	*4 3RA1941-1AA00	–

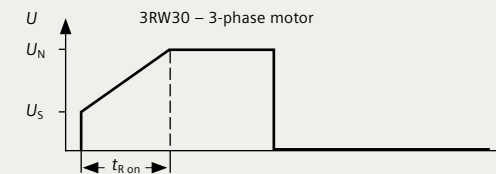
Advantages of the soft starters:

- Reduced mechanical and electrical load
- Space and cost savings thanks to compact design
- Fast and easy commissioning
- Matched with the SIRIUS modular system

3RW30 soft starter

The compact 3RW30 soft starter can be used in almost every standard application up to 55 kW. Setting is made via two potentiometers and can thus be implemented conveniently and easily.

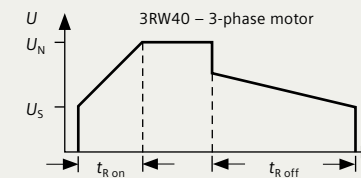
3RW3 state diagram



3RW40 soft starter

The 3RW4 additionally has potentiometers for soft ramp-down, current limiting and motor overload protection. Integrated intrinsic device protection and motor protection functions offer additional advantages over the 3RW3.

3RW4 state diagram



**Published by
Siemens Ag**

Smart Infrastructure

Electrical Products

Werner-von-Siemens-Str. 48 – 50

92224 Amberg

Germany

**For the U.S. published by
Siemens Industry Inc.**

1 00 Technology Drive

Alpharetta, GA 30005, United States

Article No. DFCP-T10133-01-7600

TH S22-220380 WS 0722

Printed in Germany

© Siemens 2022

Subject to changes and errors. The information provided in this brochure contains merely general descriptions or characteristics of performance which in case of actual use do not always apply as described or which may change as a result of further development of the products. An obligation to provide the respective characteristics shall only exist if expressly agreed in the terms of contract.

All product designations may be trademarks or product names of Siemens Ag or supplier companies whose use by third parties for their own purposes could violate the rights of the owners.

Security information

In order to protect plants, systems, machines and networks against cyber threats, it is necessary

to implement – and continuously maintain – a holistic, state-of-the-art industrial security concept.

Siemens' products and solutions only form one elements of such a concept. For more information

about industrial security, please visit <http://www.siemens.com/industrialsecurity>.