

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.

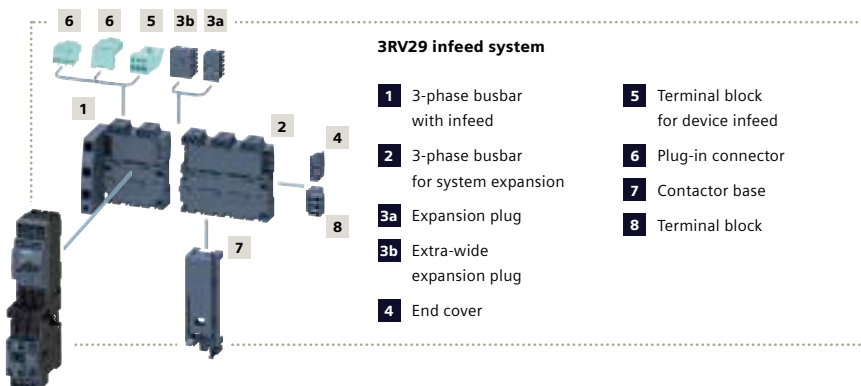
3-phase busbar for two motor starter protectors size S00/S0

| | |
|---|------------|
| 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

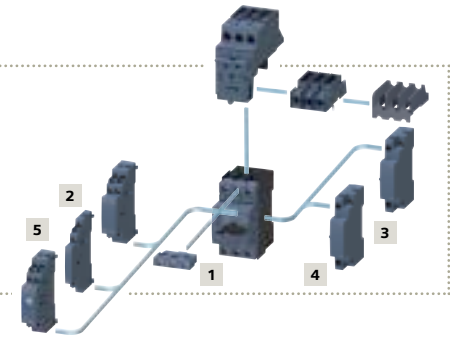
| | | |
|----------|-----------------------|---------------|
| Size S00 | Screw terminals | 3RV2917-5CA00 |
| | Spring-type terminals | 3RV2917-5AA00 |
| Size S0 | Screw terminals | 3RV1927-5AA00 |
| | Spring-type terminals | 3RV2927-5AA00 |

| | |
|---|---------------|
| Contactor base for contactors size S00, S0 | 3RV2927-7AA00 |
|---|---------------|



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, 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 |
| 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 |
| 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 |
| Size S3 | | |
| Without LED | Varistor | 3RT2936-1BD00 |
| With LED | 127 ... 240 V AC | 3RT2936-1JL00 |
| Without LED | RC element | 3RT2946-1CD00 |

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

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 | 0 | 230 V AC, 50/60 Hz 24 V DC | 1NO | 3RT2015- AP01 | 3RU2116-0D | 0 | 0.1 – 0.4 | 3RB3016-1R | 0 | | | | |
| 0.12 | 0.5 | 0.35 – 0.5 | 3RV2011-0FA | 0 | | 1NC | 3RT2015- AP02 | 3RU2116-0F | 0 | 0.32 – 1.25 | 3RB3016-1N | 0 | | | | |
| 0.18 | 0.63 | 0.45 – 0.63 | 3RV2011-0GA | 0 | | 1NO | 3RT2015- BB41 | 3RU2116-0G | 0 | | | | | | | |
| 0.25 | 1 | 0.7 – 1 | 3RV2011-0JA | 0 | | 1NC | 3RT2015- BB42 | 3RU2116-0J | 0 | | | | | | | |
| 0.37 | 1.25 | 0.9 – 1.25 | 3RV2011-0KA | 0 | | 230 V AC, 50/60 Hz 24 V DC | 1NO | 3RT2016 AP01 | 3RU2116-0K | 0 | 1 – 4 | 3RB3016-1P | 0 | | | |
| 0.55 | 1.6 | 1.1 – 1.6 | 3RV2011-1AA | 0 | | | 1NC | 3RT2016 AP02 | 3RU2116-1A | 0 | | | | | | |
| 0.75 | 2 | 1.4 – 2 | 3RV2011-1BA | 0 | | | 1NO | 3RT2016 BB41 | 3RU2116-1B | 0 | | | | | | |
| 1.1 | 3.2 | 2.2 – 3.2 | 3RV2011-1DA | 0 | | | 1NC | 3RT2016 BB42 | 3RU2116-1D | 0 | | | | | | |
| 1.5 | 4 | 2.8 – 4 | 3RV2011-1EA | 0 | | | 230 V AC, 50/60 Hz 24 V DC | 1NO | 3RT2017 AP01 | 3RU2116-1E | 0 | 3 – 12 | 3RB3016-1S | 0 | | |
| 2.2 | 6.3 | 4.5 – 6.3 | 3RV2011-1GA | 0 | | | | 1NC | 3RT2017 AP02 | 3RU2116-1G | 0 | | | | | |
| 3 | 8 | 5.5 – 8 | 3RV2011-1HA | 0 | 1NO | | | 3RT2017 BB41 | 3RU2116-1H | 0 | | | | | | |
| 4 | 10 | 7 – 10 | 3RV2011-1JA | 0 | 1NC | | | 3RT2017 BB42 | 3RU2116-1J | 0 | | | | | | |
| 5.5 | 12.5 | 9 – 12.5 | 3RV2011-1KA | 0 | 230 V AC, 50/60 Hz 24 V DC | | | 1NO | 3RT2018 AP01 | 3RU2116-1K | 0 | 1.6 – 16 | 3RR2141- AW30 | 3RR2241- FW30 | | |
| 7.5 | 16 | 11 – 16 | 3RV2011-4AA | 0 | | | | 1NC | 3RT2018 AP02 | 3RU2116-4A | 0 | | | | 4 – 16 | 3RB3016-1T |
| | | | 1NO | 3RT2018 BB41 | | | | | | | | | | | | |
| | | | 1NC | 3RT2018 BB42 | | | | | | | | | | | | |

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 24 V DC | 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 | | 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 20 – 33 V AC/DC | 1NO+1NC | 3RT2035- AP00 | 3RU2136-4EB0 | 20 – 80 | 3RB3036-1W | 8 – 80 | 3RR2143- AW30 | 3RR2243- FW30 | |
| 18.5 | 40 | 32 – 40 | 3RV203 -4JA10 | | | 1NO+1NC | 3RT2035- NB30 | 3RU2136-4FB0 | | | | | | |
| 22 | 45 | 35 – 45 | 3RV203 -4VA10 | *3 | 230 V AC, 50 Hz 20 – 33 V AC/DC | 1NO+1NC | 3RT2036- AP00 | 3RU2136-4GB0 | | | | | | |
| 22 | 52 | 42 – 52 | 3RV203 -4WA10 | | | 1NO+1NC | 3RT2036- NB30 | 3RU2136-4HB0 | | | | | | |
| 30 | 59 | 49 – 59 | 3RV203 -4XA10 | *3 | 230 V AC, 50 Hz 20 – 33 V AC/DC | 1NO+1NC | 3RT2037- AP00 | 3RU2136-4QB0 | | | | | | |
| 30 | 65 | 54 – 65 | 3RV203 -4JA10 | *3 | | 1NO+1NC | 3RT2037- NB30 | 3RU2136-4JB0 | | | | | | |
| 37 | 73 | 62 – 73 | 3RV203 -4KA10 | *3 | 230 V AC, 50 Hz 20 – 33 V AC/DC | 1NO+1NC | 3RT2038- AP00 | 3RU2136-4KB0 | 20 – 80 | 3RB3036-1W | 8 – 80 | 3RR2143- AW30 | 3RR2243- FW30 | |
| 37 | 80 | 70 – 80 | 3RV203 -4RA10 | | | 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 Screw terminals: B 0 Spring-type term.: D 0 | | Screw terminals: 1 Spring-type term.: 3 | | | |
| | | | | | | | | | Straight-through transf. Screw terminals: W 1 Spring-type term.: X 1 | | | | | |
| Size, width | | | S3, 70 mm | | | | | | | | | | | |
| 20 | 50 | 36 – 50 | 3RV204 -4HA10 | *4 | 230 V AC, 50 Hz 20 – 33 V AC/DC | 1NO+1NC | 3RT2045- AP00 | 3RU2146-4HB0 | 32 – 115 | 3RB3046-1X | | | | |
| 30 | 63 | 45 – 63 | 3RV204 -4JA10 | | | | 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 20 – 33 V AC/DC | 1NO+1NC | 3RT2047- AP00 | 3RU2146-4MB0 | | | | | | |
| 45/55 | 100 | 80 – 100 | 3RV204 -4MA10 | | | 1NO+1NC | 3RT2047- NB30 | | | | | | | |
| | | | Screw terminals: 1 Spring-type term.: 2 | | | | Screw terminals: 1 Spring-type term.: 3 | | 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 | | | 3RW3036-1BB 4 | 3RW4036-1BB 4 |
| 22 | 45 | 35 – 45 | 3RV203 -4VA10 | | | 3RW3036-1BB 4 | 3RW4036-1BB 4 |
| 22 | 52 | 42 – 52 | 3RV203 -4WA10 | *3 | 63 | 3RW3037-1BB 4 | 3RW4037-1BB 0 |
| 30 | 59 | 49 – 59 | 3RV203 -4XA10 | | | 3RW3037-1BB 4 | 3RW4037-1BB 0 |
| 30 | 65 | 54 – 65 | 3RV203 -4JA10 | | | 3RW3037-1BB 4 | 3RW4037-1BB 0 |
| 37 | 73 | 62 – 73 | 3RV203 -4KA10 | *3 | 72 | 3RW3038-1BB 4 | 3RW4038-1BB 4 |
| 37 | 80 | 70 – 80 | 3RV203 -4RA10 | | | 3RW3038-1BB 4 | 3RW4038-1BB 4 |
| 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 | | | 3RW3046-1BB 4 | 3RW4046-1BB 4 |
| 37 | 75 | 57 – 75 | 3RV204 -4KA10 | | | 3RW3046-1BB 4 | 3RW4046-1BB 4 |
| 45 | 84 | 65 – 84 | 3RV204 -4RA10 | *4 | 106 | 3RW3047-1BB 4 | 3RW4047-1BB 4 |
| 45 | 93 | 75 – 93 | 3RV204 -4YA10 | | | 3RW3047-1BB 4 | 3RW4047-1BB 4 |
| 45/55 | 100 | 80 – 100 | 3RV204 -4MA10 | | | 3RW3047-1BB 4 | 3RW4047-1BB 4 |
| 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 | – |

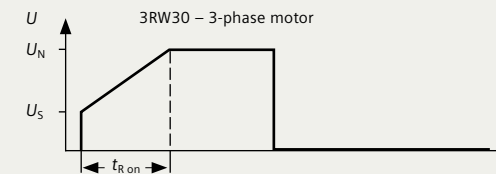
Advantages of the soft starters:

- 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.

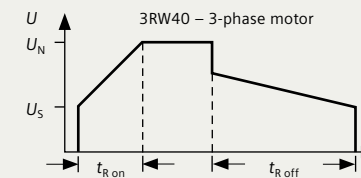
3RW3 state diagram



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



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