

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

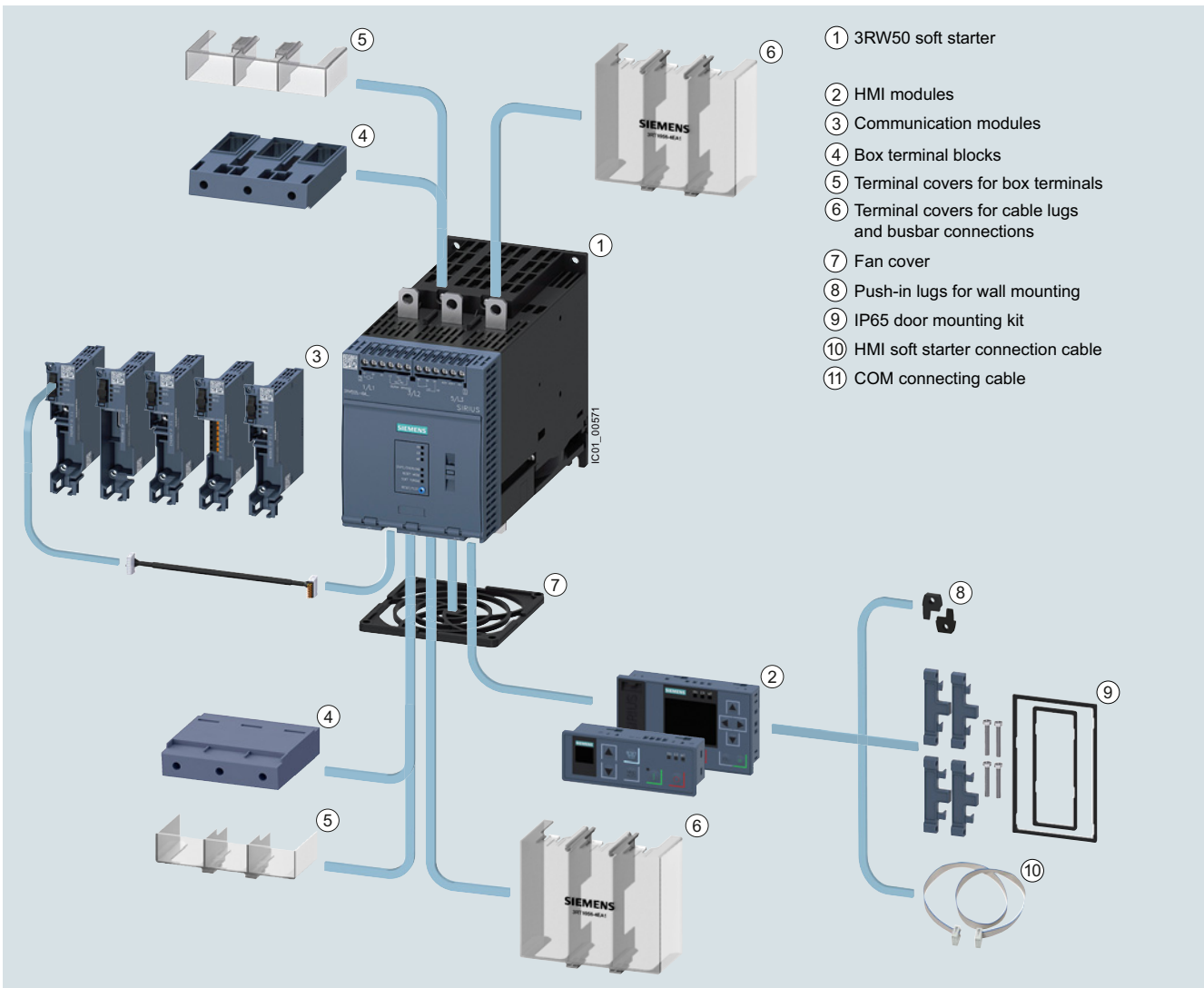
Industry Online Support (SIOS) topic page, see <https://support.industry.siemens.com/cs/ww/en/view/109747404>

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.



- ① 3RW50 soft starter
- ② HMI modules
- ③ Communication modules
- ④ Box terminal blocks
- ⑤ Terminal covers for box terminals
- ⑥ Terminal covers for cable lugs and busbar connections
- ⑦ Fan cover
- ⑧ Push-in lugs for wall mounting
- ⑨ IP65 door mounting kit
- ⑩ HMI soft starter connection cable
- ⑪ COM connecting cable

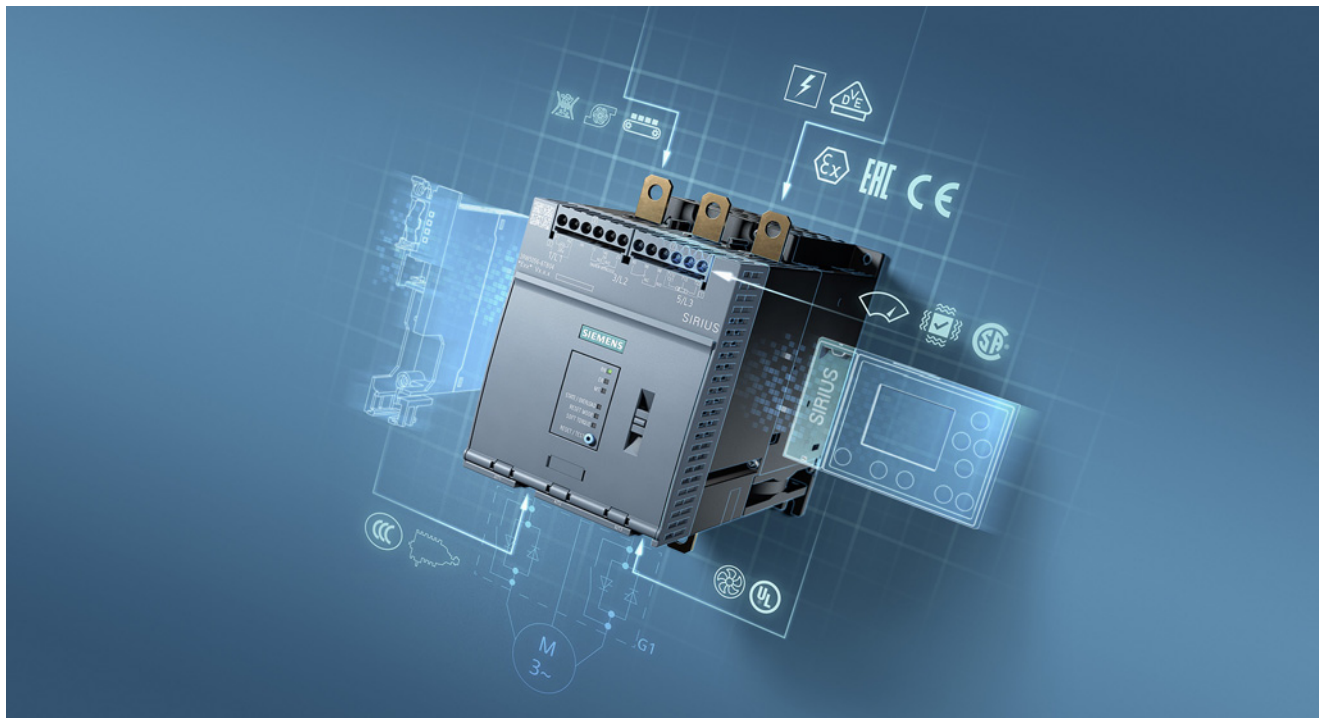
3RW50 Basic Performance soft starters with accessories (see page 6/82), for expansion with HMI module or communication module

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>

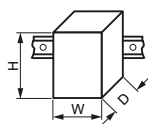
Type

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 +/- 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 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 ($I_{cu} = 1$ 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 | | 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, 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 ON period = 70%; motor protection activated | A | 143/128/118 | 171/153/141 | | | | |
| • 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 ON period = 70%; motor protection activated | A | 143/128/118 | 171/153/141 | | | | |
| • 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 ON period = 70%; motor protection activated | A | 108/98/88 | 135/123/111 | | | | |
| • 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 | | | | |
| 3RW5072, 3RW5073, 3RW5074, 3RW5075, 3RW5076, 3RW5077 | | | | | | | |
| 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, 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 ON period = 70%; motor protection activated | A | 210/186/170 | 250/220/200 | 315/279/255 | 370/328/300 | 470/416/380 | 570/504/460 |
| • 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 ON period = 70%; motor protection activated | A | 210/186/170 | 250/220/200 | 315/279/255 | 370/328/300 | 470/416/380 | 570/504/460 |
| • 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 ON period = 70%; motor protection activated | A | 162/146/130 | 200/180/160 | 219/195/171 | 258/230/202 | 272/254/218 | 284/262/240 |
| • 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

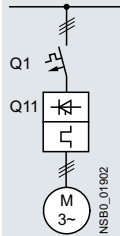
NEW 3RW50 soft starters > General data

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 | | 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**

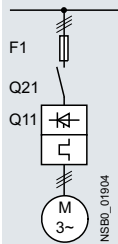
Motor feeders according to IEC with 3NA3 fuses

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 $I_{q} = 65 \text{ kA}$

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 480 V | for systems up to 600 V |
| Q11 | F1 | Q21 | Q21 |
| Type | Type | Type | Type |
| Type of coordination "1" | Inline circuit TQC 1 | | |
| 3RW5055 | 3NA3244-6 | 3RT1055 | 3RT1055 |
| 3RW5056 | 3NA3244-6 | 3RT1056 | 3RT1064 |
| 3RW5072 | 2 x 3NA3354-6 | 3RT1064 | 3RT1064 |
| 3RW5073 | 2 x 3NA3354-6 | 3RT1065 | 3RT1065 |
| 3RW5074 | 2 x 3NA3365-6 | 3RT1075 | 3RT1075 |
| 3RW5075 | 2 x 3NA3365-6 | 3RT1075 | 3RT1075 |
| 3RW5076 | 2 x 3NA3365-6 | 3RT1076 | 3RT1076 |
| 3RW5077 | 2 x 3NA3365-6 | 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.

Switching Devices – Soft Starters and Solid-State Switching Devices

SIRIUS 3RW Soft Starters

Basic Performance Soft Starters

NEW 3RW50 soft starters > General data

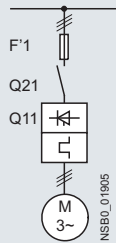
Motor feeders according to IEC with 3NE1 SITOR fuses

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 600 V | for systems up to 480 V | for systems up to 600 V |
| Type | F'1 | Q21 | Q21 |
| Type | Type | Type | Type |
| Type of coordination "2" | ToC 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_{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

3RW50 soft starters > General data **NEW**

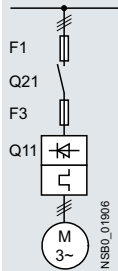
Motor feeders according to IEC with 3NE3 fuses

aR class partial-range fuses for semiconductor protection

Type of coordination "2",
short-circuit breaking capacity $I_{q1} = 65 \text{ kA}$

Note:

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



| Soft starters | gG class fuse | aR class fuse | 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" | Inline circuit | | | |
| | <small>ToC 2</small> | | | |
| 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 |

Note:

The specified short-circuit breaking capacities I_{q1} 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), 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.



| 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.




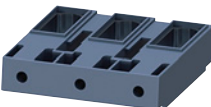

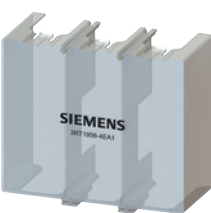


Switching Devices – Soft Starters and Solid-State Switching Devices

SIRIUS 3RW Soft Starters

Basic Performance Soft Starters

3RW50 soft starters > Accessories

Selection and ordering data



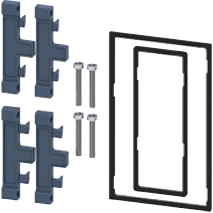


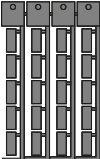
| Product designation | Manufacturer's Article No. of the soft starter | Type of product | Application | SD | Article No. | Price per PU | PU (UNIT, SET, M) | PS* | PG | |
|---|---|-----------------|--|----|-------------|----------------------|---------------------|-----|--------|--------|
| Fan covers | | | | | | | | | | |
|  | Fan cover | 3RW50 (1x) | -- | -- | ▶ | 3RW5985-0FC00 | | 1 | 1 unit | 42S |
| 3RW5985-0FC00 | | | | | | | | | | |
| Box terminal block | | | | | | | | | | |
|  | Box terminal block for round and ribbon cables | 3RW505 (2x) | Up to 70 mm ² | -- | ▶ | 3RT1955-4G | | 1 | 1 unit | 41B |
| | | | Up to 120 mm ² | -- | ▶ | 3RT1956-4G | | 1 | 1 unit | 41B |
| | | 3RW507 (2x) | Up to 240 mm ² (with auxiliary conductor connection) | -- | ▶ | 3RT1966-4G | | 1 | 1 unit | 41B |
| 3RT1956-4G | | | | | | | | | | |
| Terminal covers | | | | | | | | | | |
|  | Covers for box terminals | 3RW505 (2x) | -- | -- | ▶ | 3RT1956-4EA2 | | 1 | 1 unit | 41B |
| | | | 3RW507 (2x) | -- | -- | ▶ | 3RT1966-4EA2 | | 1 | 1 unit |
| 3RT1956-4EA2 | | | | | | | | | | |
|  | Covers for cable lugs and busbar connections | 3RW505 (2x) | -- | -- | ▶ | 3RT1956-4EA1 | | 1 | 1 unit | 41B |
| | | | 3RW507 (2x) | -- | -- | ▶ | 3RT1966-4EA1 | | 1 | 1 unit |
| 3RT1956-4EA1 | | | | | | | | | | |
| Communication modules | | | | | | | | | | |
|  | Communication module | 3RW50 | PROFINET Standard | -- | ▶ | 3RW5980-0CS00 | | 1 | 1 unit | 42S |
| | | | PROFIBUS | -- | ▶ | 3RW5980-0CP00 | | 1 | 1 unit | 42S |
| | | | EtherNet/IP | -- | ▶ | 3RW5980-0CE00 | | 1 | 1 unit | 42S |
| | | | Modbus RTU | -- | ▶ | 3RW5980-0CR00 | | 1 | 1 unit | 42S |
| | | | Modbus TCP | -- | ▶ | 3RW5980-0CT00 | | 1 | 1 unit | 42S |
| 3RW5980-0CS00 | | | | | | | | | | |
|  | COM connection cable | 3RW50 | 0.3 m | -- | ▶ | 3RW5900-0CC00 | | 1 | 1 unit | 42S |
| 3RW5900-0CC00 | | | | | | | | | | |
| For mounting laterally on the device | | | | | | | | | | |

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).