



SIRIUS soft starter 200-480 V 210 A, 24 V AC/DC Screw terminals  
Thermistor input

**product brand name**

**product category**

**product designation**

**product type designation**

**manufacturer's article number**

- of standard HMI module usable
- of high feature HMI module usable
- of communication module PROFINET standard usable
- of communication module PROFIBUS usable
- of communication module Modbus TCP usable
- of communication module Modbus RTU usable
- of communication module Ethernet/IP
- of circuit breaker usable at 400 V
- of circuit breaker usable at 500 V
- of circuit breaker usable at 400 V at inside-delta circuit
- of circuit breaker usable at 500 V at inside-delta circuit
- of the gG fuse usable up to 690 V
- of the gG fuse usable at inside-delta circuit up to 500 V
- of full range R fuse link for semiconductor protection usable up to 690 V
- of back-up R fuse link for semiconductor protection usable up to 690 V

SIRIUS

Hybrid switching devices

Soft starter

3RW52

[3RW5980-0HS00](#)

[3RW5980-0HF00](#)

[3RW5980-0CS00](#)

[3RW5980-0CP00](#)

[3RW5980-0CT00](#)

[3RW5980-0CR00](#)

[3RW5980-0CE00](#)

[3VA2325-7MN32-0AA0: Type of coordination 1, I<sub>q</sub> = 65 kA, CLASS 10](#)

[3VA2325-7MN32-0AA0: Type of coordination 1, I<sub>q</sub> = 65 kA, CLASS 10](#)

[3VA2440-7MN32-0AA0: Type of coordination 1, I<sub>q</sub> = 65 kA, CLASS 10](#)

[3VA2440-7MN32-0AA0: Type of coordination 1, I<sub>q</sub> = 65 kA, CLASS 10](#)

2x3NA3354-6; Type of coordination 1, I<sub>q</sub> = 65 kA

2x3NA3354-6; Type of coordination 1, I<sub>q</sub> = 65 kA

[3NE1230-2: Type of coordination 2, I<sub>q</sub> = 65 kA](#)

[3NE3333: Type of coordination 2, I<sub>q</sub> = 65 kA](#)

## General technical data

**starting voltage [%]**

30 ... 100 %

**stopping voltage [%]**

50 %; non-adjustable

**start-up ramp time of soft starter**

0 ... 20 s

**current limiting value [%] adjustable**

130 ... 700 %

**certificate of suitability**

- CE marking
- UL approval
- CSA approval

Yes

Yes

Yes

**product component**

- HMI-High Feature
- is supported HMI-Standard
- is supported HMI-High Feature

No

Yes

Yes

**product feature integrated bypass contact system**

Yes

**number of controlled phases**

3

**trip class**

CLASS 10A (default) / 10E / 20E; acc. to IEC 60947-4-2

**buffering time in the event of power failure**

|                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• for main current circuit</li> <li>• for control circuit</li> </ul>                                                                                                                                                                                                                                                                                                   | 100 ms                                                                                            |
| insulation voltage rated value                                                                                                                                                                                                                                                                                                                                                                                | 100 ms                                                                                            |
| degree of pollution                                                                                                                                                                                                                                                                                                                                                                                           | 600 V                                                                                             |
| impulse voltage rated value                                                                                                                                                                                                                                                                                                                                                                                   | 3, acc. to IEC 60947-4-2                                                                          |
| blocking voltage of the thyristor maximum                                                                                                                                                                                                                                                                                                                                                                     | 6 kV                                                                                              |
| service factor                                                                                                                                                                                                                                                                                                                                                                                                | 1 600 V                                                                                           |
| surge voltage resistance rated value                                                                                                                                                                                                                                                                                                                                                                          | 1                                                                                                 |
| maximum permissible voltage for safe isolation                                                                                                                                                                                                                                                                                                                                                                | 6 kV                                                                                              |
| <ul style="list-style-type: none"> <li>• between main and auxiliary circuit</li> </ul>                                                                                                                                                                                                                                                                                                                        | 600 V                                                                                             |
| shock resistance                                                                                                                                                                                                                                                                                                                                                                                              | 15 g / 11 ms, from 12 g / 11 ms with potential contact lifting                                    |
| vibration resistance                                                                                                                                                                                                                                                                                                                                                                                          | 15 mm to 6 Hz; 2g to 500 Hz                                                                       |
| utilization category according to IEC 60947-4-2                                                                                                                                                                                                                                                                                                                                                               | AC 53a                                                                                            |
| reference code according to IEC 81346-2                                                                                                                                                                                                                                                                                                                                                                       | Q                                                                                                 |
| Substance Prohibitance (Date)                                                                                                                                                                                                                                                                                                                                                                                 | 02/15/2018                                                                                        |
| product function                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                   |
| <ul style="list-style-type: none"> <li>• ramp-up (soft starting)</li> <li>• ramp-down (soft stop)</li> <li>• Soft Torque</li> <li>• adjustable current limitation</li> <li>• pump ramp down</li> <li>• intrinsic device protection</li> <li>• motor overload protection</li> </ul>                                                                                                                            | Yes                                                                                               |
|                                                                                                                                                                                                                                                                                                                                                                                                               | Yes                                                                                               |
|                                                                                                                                                                                                                                                                                                                                                                                                               | Yes                                                                                               |
|                                                                                                                                                                                                                                                                                                                                                                                                               | Yes                                                                                               |
|                                                                                                                                                                                                                                                                                                                                                                                                               | Yes                                                                                               |
|                                                                                                                                                                                                                                                                                                                                                                                                               | Yes                                                                                               |
|                                                                                                                                                                                                                                                                                                                                                                                                               | Yes; Full motor protection (thermistor motor protection and electronic motor overload protection) |
|                                                                                                                                                                                                                                                                                                                                                                                                               | Yes; Type A PTC or Klaxon / Thermoclick                                                           |
| <ul style="list-style-type: none"> <li>• evaluation of thermistor motor protection</li> <li>• inside-delta circuit</li> <li>• auto-RESET</li> <li>• manual RESET</li> <li>• remote reset</li> <li>• communication function</li> <li>• operating measured value display</li> <li>• error logbook</li> <li>• via software parameterizable</li> <li>• via software configurable</li> <li>• PROFinergy</li> </ul> | Yes                                                                                               |
|                                                                                                                                                                                                                                                                                                                                                                                                               | Yes                                                                                               |
|                                                                                                                                                                                                                                                                                                                                                                                                               | Yes                                                                                               |
|                                                                                                                                                                                                                                                                                                                                                                                                               | Yes                                                                                               |
|                                                                                                                                                                                                                                                                                                                                                                                                               | Yes; By turning off the control supply voltage                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                               | Yes                                                                                               |
|                                                                                                                                                                                                                                                                                                                                                                                                               | Yes; Only in conjunction with special accessories                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                               | Yes; Only in conjunction with special accessories                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                               | No                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                               | Yes                                                                                               |
|                                                                                                                                                                                                                                                                                                                                                                                                               | Yes; in connection with the PROFINET Standard communication module                                |
|                                                                                                                                                                                                                                                                                                                                                                                                               | Yes                                                                                               |
| <ul style="list-style-type: none"> <li>• firmware update</li> <li>• removable terminal for control circuit</li> <li>• torque control</li> <li>• analog output</li> </ul>                                                                                                                                                                                                                                      | Yes                                                                                               |
|                                                                                                                                                                                                                                                                                                                                                                                                               | No                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                               | No                                                                                                |

## Power Electronics

|                                                                                                                                                                                                                                                              |               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| operational current                                                                                                                                                                                                                                          |               |
| <ul style="list-style-type: none"> <li>• at 40 °C rated value</li> <li>• at 50 °C rated value</li> <li>• at 60 °C rated value</li> </ul>                                                                                                                     | 210 A         |
|                                                                                                                                                                                                                                                              | 186 A         |
|                                                                                                                                                                                                                                                              | 170 A         |
| operational current at inside-delta circuit                                                                                                                                                                                                                  |               |
| <ul style="list-style-type: none"> <li>• at 40 °C rated value</li> <li>• at 50 °C rated value</li> <li>• at 60 °C rated value</li> </ul>                                                                                                                     | 364 A         |
|                                                                                                                                                                                                                                                              | 322 A         |
|                                                                                                                                                                                                                                                              | 294 A         |
| operating voltage                                                                                                                                                                                                                                            |               |
| <ul style="list-style-type: none"> <li>• rated value</li> <li>• at inside-delta circuit rated value</li> </ul>                                                                                                                                               | 200 ... 480 V |
|                                                                                                                                                                                                                                                              | 200 ... 480 V |
| relative negative tolerance of the operating voltage                                                                                                                                                                                                         | -15 %         |
| relative positive tolerance of the operating voltage                                                                                                                                                                                                         | 10 %          |
| relative negative tolerance of the operating voltage at inside-delta circuit                                                                                                                                                                                 | -15 %         |
| relative positive tolerance of the operating voltage at inside-delta circuit                                                                                                                                                                                 | 10 %          |
| operating power for 3-phase motors                                                                                                                                                                                                                           |               |
| <ul style="list-style-type: none"> <li>• at 230 V at 40 °C rated value</li> <li>• at 230 V at inside-delta circuit at 40 °C rated value</li> <li>• at 400 V at 40 °C rated value</li> <li>• at 400 V at inside-delta circuit at 40 °C rated value</li> </ul> | 55 kW         |
|                                                                                                                                                                                                                                                              | 110 kW        |
|                                                                                                                                                                                                                                                              | 110 kW        |
|                                                                                                                                                                                                                                                              | 200 kW        |
| Operating frequency 1 rated value                                                                                                                                                                                                                            | 50 Hz         |

**Operating frequency 2 rated value**  
**relative negative tolerance of the operating frequency**  
**relative positive tolerance of the operating frequency**  
**adjustable motor current**

- at rotary coding switch on switch position 1 90 A
- at rotary coding switch on switch position 2 98 A
- at rotary coding switch on switch position 3 106 A
- at rotary coding switch on switch position 4 114 A
- at rotary coding switch on switch position 5 122 A
- at rotary coding switch on switch position 6 130 A
- at rotary coding switch on switch position 7 138 A
- at rotary coding switch on switch position 8 146 A
- at rotary coding switch on switch position 9 154 A
- at rotary coding switch on switch position 10 162 A
- at rotary coding switch on switch position 11 170 A
- at rotary coding switch on switch position 12 178 A
- at rotary coding switch on switch position 13 186 A
- at rotary coding switch on switch position 14 194 A
- at rotary coding switch on switch position 15 202 A
- at rotary coding switch on switch position 16 210 A
- minimum 90 A

**adjustable motor current**

- for inside-delta circuit at rotary coding switch on switch position 1 156 A
- for inside-delta circuit at rotary coding switch on switch position 2 170 A
- for inside-delta circuit at rotary coding switch on switch position 3 184 A
- for inside-delta circuit at rotary coding switch on switch position 4 197 A
- for inside-delta circuit at rotary coding switch on switch position 5 211 A
- for inside-delta circuit at rotary coding switch on switch position 6 225 A
- for inside-delta circuit at rotary coding switch on switch position 7 239 A
- for inside-delta circuit at rotary coding switch on switch position 8 253 A
- for inside-delta circuit at rotary coding switch on switch position 9 267 A
- for inside-delta circuit at rotary coding switch on switch position 10 281 A
- for inside-delta circuit at rotary coding switch on switch position 11 294 A
- for inside-delta circuit at rotary coding switch on switch position 12 308 A
- for inside-delta circuit at rotary coding switch on switch position 13 322 A
- for inside-delta circuit at rotary coding switch on switch position 14 336 A
- for inside-delta circuit at rotary coding switch on switch position 15 350 A
- for inside-delta circuit at rotary coding switch on switch position 16 364 A
- at inside-delta circuit minimum 156 A

**minimum load [%]**

15 %; Relative to smallest settable I<sub>e</sub>

**power loss [W] for rated value of the current at AC**

- at 40 °C after startup 75 W
- at 50 °C after startup 68 W
- at 60 °C after startup 63 W

**power loss [W] at AC at current limitation 350 %**

- at 40 °C during startup 3 562 W
- at 50 °C during startup 2 979 W
- at 60 °C during startup 2 617 W

**Control circuit/ Control**

**type of voltage of the control supply voltage**  
**control supply voltage at AC**

AC/DC

|                                                                                                          |                                                                                                                                                                                |
|----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• at 50 Hz rated value</li> <li>• at 60 Hz rated value</li> </ul> | 24 V                                                                                                                                                                           |
| <b>relative negative tolerance of the control supply voltage at AC at 50 Hz</b>                          | 24 V                                                                                                                                                                           |
| <b>relative positive tolerance of the control supply voltage at AC at 50 Hz</b>                          | -20 %                                                                                                                                                                          |
| <b>relative negative tolerance of the control supply voltage at AC at 60 Hz</b>                          | 20 %                                                                                                                                                                           |
| <b>relative positive tolerance of the control supply voltage at AC at 60 Hz</b>                          | -20 %                                                                                                                                                                          |
| <b>control supply voltage frequency</b>                                                                  | 20 %                                                                                                                                                                           |
| <b>relative negative tolerance of the control supply voltage frequency</b>                               | 50 ... 60 Hz                                                                                                                                                                   |
| <b>relative positive tolerance of the control supply voltage frequency</b>                               | -10 %                                                                                                                                                                          |
| <b>control supply voltage</b>                                                                            | 10 %                                                                                                                                                                           |
| <ul style="list-style-type: none"> <li>• at DC rated value</li> </ul>                                    | 24 V                                                                                                                                                                           |
| <b>relative negative tolerance of the control supply voltage at DC</b>                                   | -20 %                                                                                                                                                                          |
| <b>relative positive tolerance of the control supply voltage at DC</b>                                   | 20 %                                                                                                                                                                           |
| <b>control supply current in standby mode rated value</b>                                                | 160 mA                                                                                                                                                                         |
| <b>holding current in bypass operation rated value</b>                                                   | 470 mA                                                                                                                                                                         |
| <b>locked-rotor current at close of bypass contact maximum</b>                                           | 7.6 A                                                                                                                                                                          |
| <b>inrush current peak at application of control supply voltage maximum</b>                              | 3.3 A                                                                                                                                                                          |
| <b>duration of inrush current peak at application of control supply voltage</b>                          | 12.1 ms                                                                                                                                                                        |
| <b>design of the overvoltage protection</b>                                                              | Varistor                                                                                                                                                                       |
| <b>design of short-circuit protection for control circuit</b>                                            | 4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply |

#### Inputs/ Outputs

|                                                                                                                           |                                                           |
|---------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|
| <b>number of digital inputs</b>                                                                                           | 1                                                         |
| <b>number of digital outputs</b>                                                                                          | 3                                                         |
| <ul style="list-style-type: none"> <li>• not parameterizable</li> </ul>                                                   | 2                                                         |
| <b>digital output version</b>                                                                                             | 2 normally-open contacts (NO) / 1 changeover contact (CO) |
| <b>number of analog outputs</b>                                                                                           | 0                                                         |
| <b>switching capacity current of the relay outputs</b>                                                                    |                                                           |
| <ul style="list-style-type: none"> <li>• at AC-15 at 250 V rated value</li> <li>• at DC-13 at 24 V rated value</li> </ul> | 3 A                                                       |
|                                                                                                                           | 1 A                                                       |

#### Installation/ mounting/ dimensions

|                                                                                                                                                  |                                                                                                                          |
|--------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| <b>mounting position</b>                                                                                                                         | with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back |
| <b>fastening method</b>                                                                                                                          | screw fixing                                                                                                             |
| <b>height</b>                                                                                                                                    | 393 mm                                                                                                                   |
| <b>width</b>                                                                                                                                     | 210 mm                                                                                                                   |
| <b>depth</b>                                                                                                                                     | 203 mm                                                                                                                   |
| <b>required spacing with side-by-side mounting</b>                                                                                               |                                                                                                                          |
| <ul style="list-style-type: none"> <li>• forwards</li> <li>• backwards</li> <li>• upwards</li> <li>• downwards</li> <li>• at the side</li> </ul> | 10 mm                                                                                                                    |
|                                                                                                                                                  | 0 mm                                                                                                                     |
|                                                                                                                                                  | 100 mm                                                                                                                   |
|                                                                                                                                                  | 75 mm                                                                                                                    |
|                                                                                                                                                  | 5 mm                                                                                                                     |
| <b>weight without packaging</b>                                                                                                                  | 9.9 kg                                                                                                                   |

#### Connections/ Terminals

|                                                                                                                                                                                                                        |                      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| <b>type of electrical connection</b>                                                                                                                                                                                   |                      |
| <ul style="list-style-type: none"> <li>• for main current circuit</li> <li>• for control circuit</li> </ul>                                                                                                            | busbar connection    |
| <b>width of connection bar maximum</b>                                                                                                                                                                                 | screw-type terminals |
| <b>wire length for thermistor connection</b>                                                                                                                                                                           | 45 mm                |
| <ul style="list-style-type: none"> <li>• with conductor cross-section = 0.5 mm² maximum</li> <li>• with conductor cross-section = 1.5 mm² maximum</li> <li>• with conductor cross-section = 2.5 mm² maximum</li> </ul> | 50 m                 |
|                                                                                                                                                                                                                        | 150 m                |
|                                                                                                                                                                                                                        | 250 m                |
| <b>type of connectable conductor cross-sections</b>                                                                                                                                                                    |                      |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• for DIN cable lug for main contacts stranded</li> <li>• for DIN cable lug for main contacts finely stranded</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2x (50 ... 240 mm²)<br>2x (70 ... 240 mm²)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>type of connectable conductor cross-sections</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <ul style="list-style-type: none"> <li>• for control circuit solid</li> <li>• for control circuit finely stranded with core end processing</li> <li>• at AWG cables for control circuit solid</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1x (0.5 ... 4.0 mm²), 2x (0.5 ... 2.5 mm²)<br>1x (0.5 ... 2.5 mm²), 2x (0.5 ... 1.5 mm²)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>wire length</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <ul style="list-style-type: none"> <li>• between soft starter and motor maximum</li> <li>• at the digital inputs at AC maximum</li> <li>• at the digital inputs at DC maximum</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 800 m<br>100 m<br>1 000 m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>tightening torque</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <ul style="list-style-type: none"> <li>• for main contacts with screw-type terminals</li> <li>• for auxiliary and control contacts with screw-type terminals</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 14 ... 24 N·m<br>0.8 ... 1.2 N·m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>tightening torque [lbf·in]</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <ul style="list-style-type: none"> <li>• for main contacts with screw-type terminals</li> <li>• for auxiliary and control contacts with screw-type terminals</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 124 ... 210 lbf·in<br>7 ... 10.3 lbf·in                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Ambient conditions</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| installation altitude at height above sea level maximum                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 5 000 m; Derating as of 1000 m, see catalog                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>ambient temperature</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <ul style="list-style-type: none"> <li>• during operation</li> <li>• during storage and transport</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | -25 ... +60 °C; Please observe derating at temperatures of 40 °C or above<br>-40 ... +80 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>environmental category</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <ul style="list-style-type: none"> <li>• during operation according to IEC 60721</li> <li>• during storage according to IEC 60721</li> <li>• during transport according to IEC 60721</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6<br>1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4<br>2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)<br>acc. to IEC 60947-4-2: Class A                                                                                                                                                                                                                                                                                                |
| <b>EMC emitted interference</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Communication/ Protocol</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>communication module is supported</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <ul style="list-style-type: none"> <li>• PROFINET standard</li> <li>• EtherNet/IP</li> <li>• Modbus RTU</li> <li>• Modbus TCP</li> <li>• PROFIBUS</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Yes<br>Yes<br>Yes<br>Yes<br>Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>UL/CSA ratings</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>manufacturer's article number</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <ul style="list-style-type: none"> <li>• <b>of circuit breaker</b> <ul style="list-style-type: none"> <li>— usable for Standard Faults at 460/480 V according to UL</li> <li>— usable for High Faults at 460/480 V according to UL</li> <li>— usable for Standard Faults at 460/480 V at inside-delta circuit according to UL</li> <li>— usable for High Faults at 460/480 V at inside-delta circuit according to UL</li> <li>— usable for Standard Faults at 575/600 V according to UL</li> <li>— usable for Standard Faults at 575/600 V at inside-delta circuit according to UL</li> </ul> </li> <li>• <b>of the fuse</b> <ul style="list-style-type: none"> <li>— usable for Standard Faults up to 575/600 V according to UL</li> <li>— usable for High Faults up to 575/600 V according to UL</li> <li>— usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>— usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> </ul> </li> </ul> | Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 10 kA<br>Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA<br>Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 10 kA<br>Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA<br>Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 10 kA<br>Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 10 kA<br>Type: Class J / L, max. 700 A; Iq = 10 kA<br>Type: Class J / L, max. 700 A; Iq = 100 kA<br>Type: Class J / L, max. 700 A; Iq = 10 kA<br>Type: Class J / L, max. 700 A; Iq = 100 kA |
| <b>operating power [hp] for 3-phase motors</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <ul style="list-style-type: none"> <li>• at 200/208 V at 50 °C rated value</li> <li>• at 220/230 V at 50 °C rated value</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 60 hp<br>60 hp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

- at 460/480 V at 50 °C rated value 150 hp
- at 200/208 V at inside-delta circuit at 50 °C rated value 100 hp
- at 220/230 V at inside-delta circuit at 50 °C rated value 125 hp
- at 460/480 V at inside-delta circuit at 50 °C rated value 250 hp

contact rating of auxiliary contacts according to UL R300-B300

#### Safety related data

protection class IP on the front according to IEC 60529

IP00; IP20 with cover

touch protection on the front according to IEC 60529

finger-safe, for vertical contact from the front with cover

electromagnetic compatibility

in accordance with IEC 60947-4-2

#### Certificates/ approvals

General Product Approval

EMC



[Confirmation](#)



Declaration of Conformity

Test Certificates

Marine / Shipping



[Type Test Certificates/Test Report](#)



Marine / Shipping

other



[Confirmation](#)

#### Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

<https://www.siemens.com/ic10>

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW5243-6TC04>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5243-6TC04>

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/3RW5243-6TC04>

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RW5243-6TC04&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5243-6TC04&lang=en)

Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

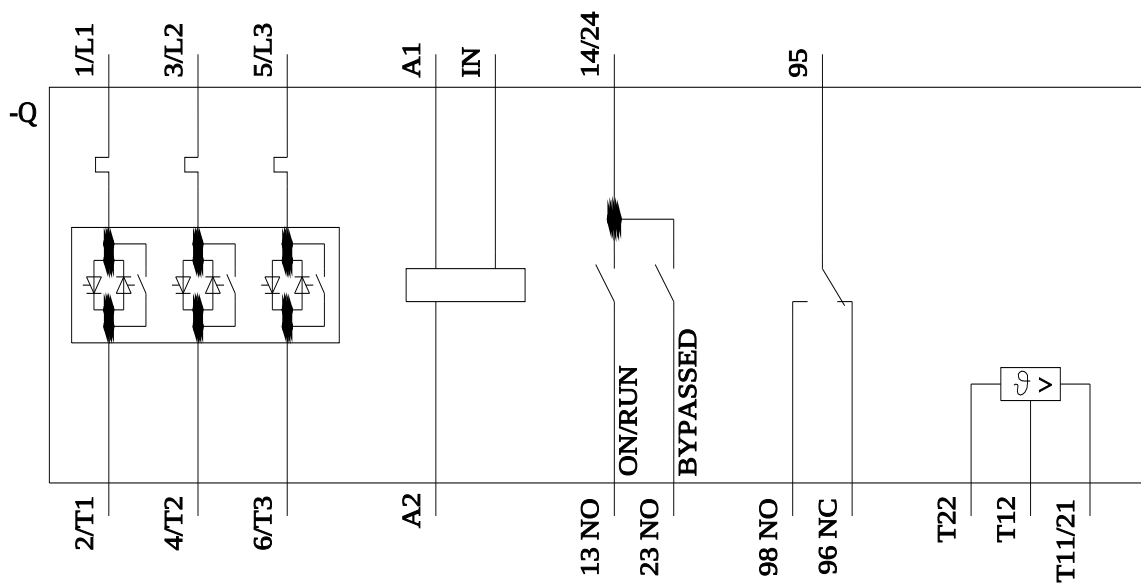
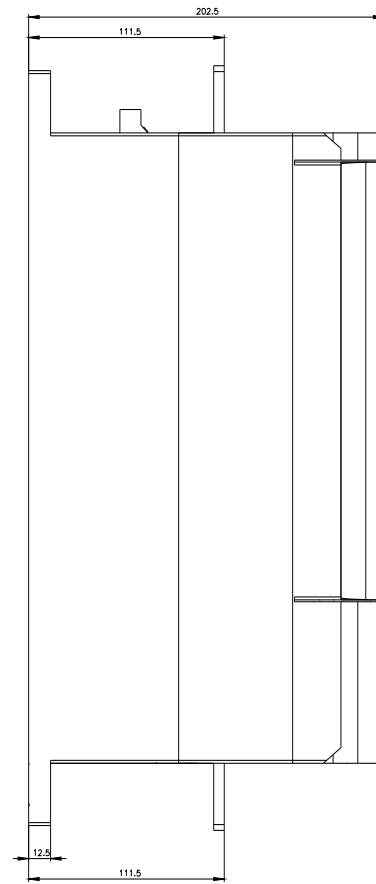
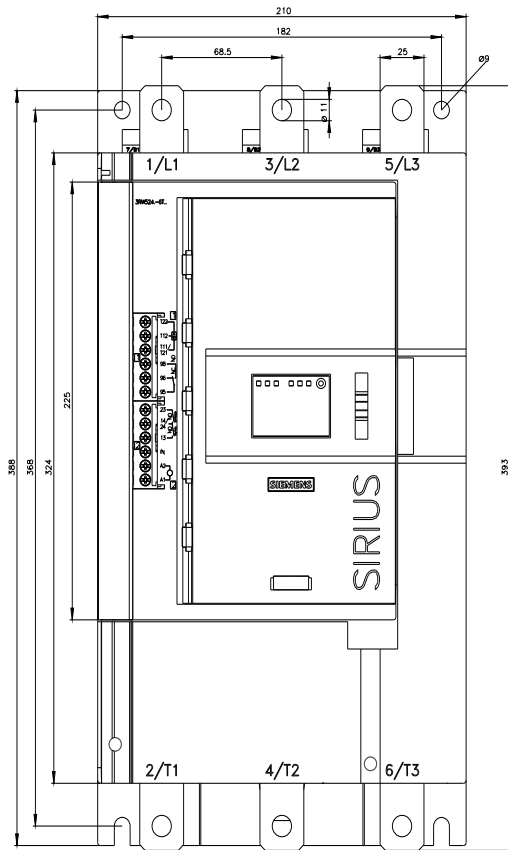
<https://support.industry.siemens.com/cs/ww/en/ps/3RW5243-6TC04/char>

Characteristic: Installation altitude

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5243-6TC04&objecttype=14&gridview=view1>

Simulation Tool for Soft Starters (STS)

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







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