



SIRIUS soft starter 200-480 V 25 A, 110-250 V AC spring-type terminals

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|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| product brand name            | SIRIUS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| product category              | Hybrid switching devices                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| product designation           | Soft starter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| product type designation      | 3RW55                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| manufacturer's article number | <ul style="list-style-type: none"> <li>• of high feature HMI module usable <a href="#">3RW5980-0HF00</a></li> <li>• of communication module PROFINET standard usable <a href="#">3RW5980-0CS00</a></li> <li>• of communication module PROFINET high-feature usable <a href="#">3RW5950-0CH00</a></li> <li>• of communication module PROFIBUS usable <a href="#">3RW5980-0CP00</a></li> <li>• of communication module Modbus TCP usable <a href="#">3RW5980-0CT00</a></li> <li>• of communication module Modbus RTU usable <a href="#">3RW5980-0CR00</a></li> <li>• of communication module Ethernet/IP <a href="#">3RW5980-0CE00</a></li> <li>• of circuit breaker usable at 400 V <a href="#">3RV2032-4EA10; Type of coordination 1, Iq = 65 kA, CLASS 10</a></li> <li>• of circuit breaker usable at 500 V <a href="#">3RV2032-4EA10; Type of coordination 1, Iq = 15 kA, CLASS 10</a></li> <li>• of circuit breaker usable at 400 V at inside-delta circuit <a href="#">3RV2032-4VA10; Type of coordination 1, Iq = 65 kA, CLASS 10</a></li> <li>• of circuit breaker usable at 500 V at inside-delta circuit <a href="#">3RV2032-4VA10; Type of coordination 1, Iq = 15 kA, CLASS 10</a></li> <li>• of the gG fuse usable up to 690 V <a href="#">3NA3822-6; Type of coordination 1, Iq = 65 kA</a></li> <li>• of the gG fuse usable at inside-delta circuit up to 500 V <a href="#">3NA3822-6; Type of coordination 1, Iq = 65 kA</a></li> <li>• of full range R fuse link for semiconductor protection usable up to 690 V <a href="#">3NE1817-0; Type of coordination 2, Iq = 65 kA</a></li> <li>• of back-up R fuse link for semiconductor protection usable up to 690 V <a href="#">3NE8021-1; Type of coordination 2, Iq = 65 kA</a></li> </ul> |

| General technical data                |                                                                |
|---------------------------------------|----------------------------------------------------------------|
| starting voltage [%]                  | 20 ... 100 %                                                   |
| stopping voltage [%]                  | 50 %; non-adjustable                                           |
| start-up ramp time of soft starter    | 0 ... 360 s                                                    |
| ramp-down time of soft starter        | 0 ... 360 s                                                    |
| start torque [%]                      | 10 ... 100 %                                                   |
| stopping torque [%]                   | 10 ... 100 %                                                   |
| torque limitation [%]                 | 20 ... 200 %                                                   |
| current limiting value [%] adjustable | 125 ... 800 %                                                  |
| breakaway voltage [%] adjustable      | 40 ... 100 %                                                   |
| breakaway time adjustable             | 0 ... 2 s                                                      |
| number of parameter sets              | 3                                                              |
| accuracy class                        | 5 (based on IEC 61557-12)                                      |
| certificate of suitability            | <ul style="list-style-type: none"> <li>• CE marking</li> </ul> |

|                                                                                                |                                                                                                                                                                                                                                                                                                                                                         |
|------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• UL approval</li> </ul>                                | Yes                                                                                                                                                                                                                                                                                                                                                     |
| <ul style="list-style-type: none"> <li>• CSA approval</li> </ul>                               | Yes                                                                                                                                                                                                                                                                                                                                                     |
| <b>product component</b>                                                                       |                                                                                                                                                                                                                                                                                                                                                         |
| <ul style="list-style-type: none"> <li>• HMI-High Feature</li> </ul>                           | Yes                                                                                                                                                                                                                                                                                                                                                     |
| <ul style="list-style-type: none"> <li>• is supported HMI-High Feature</li> </ul>              | Yes                                                                                                                                                                                                                                                                                                                                                     |
| <b>product feature integrated bypass contact system</b>                                        | Yes                                                                                                                                                                                                                                                                                                                                                     |
| <b>number of controlled phases</b>                                                             | 3                                                                                                                                                                                                                                                                                                                                                       |
| <b>current unbalance limiting value [%]</b>                                                    | 10 ... 60 %                                                                                                                                                                                                                                                                                                                                             |
| <b>ground-fault monitoring limiting value [%]</b>                                              | 10 ... 95 %                                                                                                                                                                                                                                                                                                                                             |
| <b>buffering time in the event of power failure</b>                                            |                                                                                                                                                                                                                                                                                                                                                         |
| <ul style="list-style-type: none"> <li>• for main current circuit</li> </ul>                   | 100 ms                                                                                                                                                                                                                                                                                                                                                  |
| <ul style="list-style-type: none"> <li>• for control circuit</li> </ul>                        | 100 ms                                                                                                                                                                                                                                                                                                                                                  |
| <b>idle time adjustable</b>                                                                    | 0 ... 255 s                                                                                                                                                                                                                                                                                                                                             |
| <b>insulation voltage rated value</b>                                                          | 480 V                                                                                                                                                                                                                                                                                                                                                   |
| <b>degree of pollution</b>                                                                     | 3, acc. to IEC 60947-4-2                                                                                                                                                                                                                                                                                                                                |
| <b>impulse voltage rated value</b>                                                             | 6 kV                                                                                                                                                                                                                                                                                                                                                    |
| <b>blocking voltage of the thyristor maximum</b>                                               | 1 600 V                                                                                                                                                                                                                                                                                                                                                 |
| <b>service factor</b>                                                                          | 1.15                                                                                                                                                                                                                                                                                                                                                    |
| <b>surge voltage resistance rated value</b>                                                    | 6 kV                                                                                                                                                                                                                                                                                                                                                    |
| <b>maximum permissible voltage for protective separation</b>                                   |                                                                                                                                                                                                                                                                                                                                                         |
| <ul style="list-style-type: none"> <li>• between main and auxiliary circuit</li> </ul>         | 480 V; does not apply for thermistor connection                                                                                                                                                                                                                                                                                                         |
| <b>shock resistance</b>                                                                        | 15 g / 11 ms, from 6 g / 11 ms with potential contact lifting                                                                                                                                                                                                                                                                                           |
| <b>vibration resistance</b>                                                                    | 15 mm up to 6 Hz; 2 g up to 500 Hz                                                                                                                                                                                                                                                                                                                      |
| <b>recovery time after overload trip adjustable</b>                                            | 60 ... 1 800 s                                                                                                                                                                                                                                                                                                                                          |
| utilization category according to IEC 60947-4-2                                                | AC 53a                                                                                                                                                                                                                                                                                                                                                  |
| <b>reference code according to IEC 81346-2</b>                                                 | Q                                                                                                                                                                                                                                                                                                                                                       |
| <b>Substance Prohibitance (day/month/year)</b>                                                 | 02/15/2018                                                                                                                                                                                                                                                                                                                                              |
| <b>SVHC substance name</b>                                                                     | Lead CAS-No. 7439-92-1<br>Lead monoxide (lead oxide) CAS-No. 1317-36-8<br>2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one CAS-No. 71868-10-5<br>Melamine CAS-No. 108-78-1<br>6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol CAS-No. 119-47-1<br>Dibutylbis(pentane-2,4-dionato-O,O')tin CAS-No. 22673-19-4<br>Diboron trioxide CAS-No. 1303-86-2 |
| <b>Net Weight</b>                                                                              | 2.2 kg                                                                                                                                                                                                                                                                                                                                                  |
| <b>product function</b>                                                                        |                                                                                                                                                                                                                                                                                                                                                         |
| <ul style="list-style-type: none"> <li>• ramp-up (soft starting)</li> </ul>                    | Yes                                                                                                                                                                                                                                                                                                                                                     |
| <ul style="list-style-type: none"> <li>• soft stopping</li> </ul>                              | Yes                                                                                                                                                                                                                                                                                                                                                     |
| <ul style="list-style-type: none"> <li>• breakaway pulse</li> </ul>                            | Yes                                                                                                                                                                                                                                                                                                                                                     |
| <ul style="list-style-type: none"> <li>• adjustable current limitation</li> </ul>              | Yes                                                                                                                                                                                                                                                                                                                                                     |
| <ul style="list-style-type: none"> <li>• creep speed in both directions of rotation</li> </ul> | Yes                                                                                                                                                                                                                                                                                                                                                     |
| <ul style="list-style-type: none"> <li>• pump stop</li> </ul>                                  | Yes                                                                                                                                                                                                                                                                                                                                                     |
| <ul style="list-style-type: none"> <li>• DC braking</li> </ul>                                 | Yes                                                                                                                                                                                                                                                                                                                                                     |
| <ul style="list-style-type: none"> <li>• motor heating</li> </ul>                              | Yes                                                                                                                                                                                                                                                                                                                                                     |
| <ul style="list-style-type: none"> <li>• min/max pointer</li> </ul>                            | Yes                                                                                                                                                                                                                                                                                                                                                     |
| <ul style="list-style-type: none"> <li>• trace function</li> </ul>                             | Yes                                                                                                                                                                                                                                                                                                                                                     |
| <ul style="list-style-type: none"> <li>• intrinsic device protection</li> </ul>                | Yes                                                                                                                                                                                                                                                                                                                                                     |
| <ul style="list-style-type: none"> <li>• motor overload protection</li> </ul>                  | Yes; Full motor protection (thermistor motor protection and electronic motor overload protection) / When using the motor overload protection according to ATEX, an upstream contactor is required in inside-delta circuit.                                                                                                                              |
| <ul style="list-style-type: none"> <li>• evaluation of thermistor motor protection</li> </ul>  | Yes; Type A PTC or Klaxon / Thermoclick                                                                                                                                                                                                                                                                                                                 |
| <ul style="list-style-type: none"> <li>• inside-delta circuit</li> </ul>                       | Yes                                                                                                                                                                                                                                                                                                                                                     |
| <ul style="list-style-type: none"> <li>• auto-RESET</li> </ul>                                 | Yes                                                                                                                                                                                                                                                                                                                                                     |
| <ul style="list-style-type: none"> <li>• manual RESET</li> </ul>                               | Yes                                                                                                                                                                                                                                                                                                                                                     |
| <ul style="list-style-type: none"> <li>• remote reset</li> </ul>                               | Yes                                                                                                                                                                                                                                                                                                                                                     |
| <ul style="list-style-type: none"> <li>• communication function</li> </ul>                     | Yes                                                                                                                                                                                                                                                                                                                                                     |
| <ul style="list-style-type: none"> <li>• operating measured value display</li> </ul>           | Yes                                                                                                                                                                                                                                                                                                                                                     |
| <ul style="list-style-type: none"> <li>• event list</li> </ul>                                 | Yes                                                                                                                                                                                                                                                                                                                                                     |
| <ul style="list-style-type: none"> <li>• error logbook</li> </ul>                              | Yes                                                                                                                                                                                                                                                                                                                                                     |
| <ul style="list-style-type: none"> <li>• via software parameterizable</li> </ul>               | Yes                                                                                                                                                                                                                                                                                                                                                     |
| <ul style="list-style-type: none"> <li>• via software configurable</li> </ul>                  | Yes                                                                                                                                                                                                                                                                                                                                                     |

- screw terminal
- spring-loaded terminal

- **PROFInergy**

- **firmware update**
- **removable terminal for control circuit**
- voltage ramp
- torque control
- combined braking
- analog output
- programmable control inputs/outputs
- condition monitoring
- automatic parameterisation
- application wizards
- alternative stopping mode
- emergency operation mode
- reversing operation
- soft starting at heavy starting conditions

No

Yes

Yes; in connection with the PROFINET Standard and PROFINET High-Feature communication modules

Yes

Yes

Yes

Yes

Yes

Yes; 4 ... 20 mA (default) / 0 ... 10 V

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

## Power Electronics

### operational current

- at 40 °C rated value 25 A
- at 40 °C rated value minimum 5 A
- at 50 °C rated value 22.3 A
- at 60 °C rated value 19.6 A

### operational current at inside-delta circuit

- at 40 °C rated value 43.3 A
- at 50 °C rated value 39 A
- at 60 °C rated value 33.9 A

### operating voltage

- rated value 200 ... 480 V
- at inside-delta circuit rated value 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

- at 230 V at 40 °C rated value 5.5 kW
- at 230 V at inside-delta circuit at 40 °C rated value 11 kW
- at 400 V at 40 °C rated value 11 kW
- at 400 V at inside-delta circuit at 40 °C rated value 18.5 kW

### Operating frequency 1 rated value

50 Hz

### Operating frequency 2 rated value

60 Hz

### relative negative tolerance of the operating frequency

-10 %

### relative positive tolerance of the operating frequency

10 %

### minimum load [%]

10 %; Relative to set I<sub>e</sub>

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

- at 40 °C after startup 8 W
- at 50 °C after startup 7 W
- at 60 °C after startup 6 W

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

- at 40 °C during startup 364 W
- at 50 °C during startup 309 W
- at 60 °C during startup 262 W

### type of the motor protection

Electronic, tripping in the event of thermal overload of the motor

## Control circuit/ Control

### type of voltage of the control supply voltage

AC

### control supply voltage at AC

- at 50 Hz 110 ... 250 V

|                                                                          |                                                                                                                                                                                |
|--------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| • at 60 Hz                                                               | 110 ... 250 V                                                                                                                                                                  |
| relative negative tolerance of the control supply voltage at AC at 50 Hz | -15 %                                                                                                                                                                          |
| relative positive tolerance of the control supply voltage at AC at 50 Hz | 10 %                                                                                                                                                                           |
| relative negative tolerance of the control supply voltage at AC at 60 Hz | -15 %                                                                                                                                                                          |
| relative positive tolerance of the control supply voltage at AC at 60 Hz | 10 %                                                                                                                                                                           |
| control supply voltage frequency                                         | 50 ... 60 Hz                                                                                                                                                                   |
| relative negative tolerance of the control supply voltage frequency      | -10 %                                                                                                                                                                          |
| relative positive tolerance of the control supply voltage frequency      | 10 %                                                                                                                                                                           |
| control supply current in standby mode rated value                       | 100 mA                                                                                                                                                                         |
| holding current in bypass operation rated value                          | 165 mA                                                                                                                                                                         |
| inrush current by closing the bypass contacts maximum                    | 0.2 A                                                                                                                                                                          |
| inrush current peak at application of control supply voltage maximum     | 43 A                                                                                                                                                                           |
| duration of inrush current peak at application of control supply voltage | 1.6 ms                                                                                                                                                                         |
| design of the overvoltage protection                                     | Varistor                                                                                                                                                                       |
| design of short-circuit protection for control circuit                   | 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

|                                                 |                                                           |
|-------------------------------------------------|-----------------------------------------------------------|
| number of digital inputs                        | 4                                                         |
| • parameterizable                               | 4                                                         |
| • number of digital outputs                     | 4                                                         |
| • number of digital outputs parameterizable     | 3                                                         |
| • number of digital outputs not parameterizable | 1                                                         |
| digital output version                          | 3 normally-open contacts (NO) / 1 changeover contact (CO) |
| number of analog outputs                        | 1                                                         |
| switching capacity current of the relay outputs |                                                           |
| • at AC-15 at 250 V rated value                 | 3 A                                                       |
| • at DC-13 at 24 V rated value                  | 1 A                                                       |

#### Installation/ mounting/ dimensions

|                                             |                                                                            |
|---------------------------------------------|----------------------------------------------------------------------------|
| mounting position                           | Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) |
| fastening method                            | screw fixing                                                               |
| height                                      | 275 mm                                                                     |
| width                                       | 170 mm                                                                     |
| depth                                       | 152 mm                                                                     |
| required spacing with side-by-side mounting |                                                                            |
| • forwards                                  | 10 mm                                                                      |
| • backwards                                 | 0 mm                                                                       |
| • upwards                                   | 100 mm                                                                     |
| • downwards                                 | 75 mm                                                                      |
| • at the side                               | 5 mm                                                                       |
| weight without packaging                    | 2.3 kg                                                                     |

#### Connections/ Terminals

|                                                  |                                            |
|--------------------------------------------------|--------------------------------------------|
| type of electrical connection                    |                                            |
| • for main current circuit                       | screw-type terminals                       |
| • for control circuit                            | spring-loaded terminals                    |
| wire length for thermistor connection            |                                            |
| • with conductor cross-section = 0.5 mm² maximum | 50 m                                       |
| • with conductor cross-section = 1.5 mm² maximum | 150 m                                      |
| • with conductor cross-section = 2.5 mm² maximum | 250 m                                      |
| type of connectable conductor cross-sections     |                                            |
| • for main contacts                              |                                            |
| — solid                                          | 2x (1.0 ... 2.5 mm²), 2x (2.5 ... 10 mm²)  |
| — finely stranded with core end processing       | 2x (1.0 ... 2.5 mm²), 2x (2.5 ... 6.0 mm²) |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• for AWG cables for main current circuit solid</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2x (16 ... 12), 2x (14 ... 8)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <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>• for AWG cables for control circuit solid</li> <li>• for AWG cables for control circuit finely stranded with core end processing</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 2x (0.25 ... 1.5 mm <sup>2</sup> )<br>2x (0.25 ... 1.5 mm <sup>2</sup> )<br>2x (24 ... 16)<br>2x (24 ... 16)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>wire length</b> <ul style="list-style-type: none"> <li>• between soft starter and motor maximum</li> <li>• at the digital inputs at DC maximum</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 800 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>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 2 ... 2.5 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>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 18 ... 22 lbf·in<br>7 ... 10.3 lbf·in                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Ambient conditions</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| installation altitude at height above sea level maximum                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 5 000 m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <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)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Electromagnetic compatibility</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>EMC emitted interference</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | acc. to IEC 60947-4-2: Class A, Class B on request                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Communication/ Protocol</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>communication module is supported</b> <ul style="list-style-type: none"> <li>• PROFINET standard</li> <li>• PROFINET high-feature</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<br>Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>UL/CSA ratings</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>manufacturer's article number</b> <ul style="list-style-type: none"> <li>• of circuit breaker usable for Standard Faults <ul style="list-style-type: none"> <li>— at 460/480 V according to UL</li> <li>— 60/480 V according to UL</li> <li>— at 460/480 V at inside-delta circuit according to UL</li> <li>— 60/480 V at inside-delta circuit according to UL</li> <li>— at 575/600 V according to UL</li> <li>— 75/600 V at inside-delta circuit according to UL</li> <li>— at 575/600 V at inside-delta circuit according to UL</li> </ul> </li> <li>• of the fuse <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: 3RV2742, max. 70 A or 3VA51, max. 80 A; I <sub>q</sub> = 5 kA<br>Siemens type: 3RV2742, max. 40 A or 3VA51, max. 60 A; I <sub>q</sub> max = 65 kA<br>Siemens type: 3RV2742, max. 70 A or 3VA51, max. 80 A; I <sub>q</sub> = 5 kA<br>Siemens type: 3VA51, max. 60 A; I <sub>q</sub> max = 65 kA<br>Siemens type: 3RV2742, max. 70 A or 3VA51, max. 80 A; I <sub>q</sub> = 5 kA<br>Siemens type: 3VA51, max. 60 A; I <sub>q</sub> max = 65 kA<br>Siemens type: 3RV2742, max. 70 A or 3VA51, max. 80 A; I <sub>q</sub> = 5 kA<br>Type: Class RK5 / K5, max. 100 A; I <sub>q</sub> = 5 kA<br>Type: Class J / L, max. 100 A; I <sub>q</sub> = 100 kA<br>Type: Class RK5 / K5, max. 100 A; I <sub>q</sub> = 5 kA<br>Type: Class J / L, max. 100 A; I <sub>q</sub> = 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>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 5 hp<br>7.5 hp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

|                                                                                                                                                                                                                                                                                                      |                                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| <ul style="list-style-type: none"> <li>• at 460/480 V at 50 °C rated value</li> <li>• at 200/208 V at inside-delta circuit at 50 °C rated value</li> <li>• at 220/230 V at inside-delta circuit at 50 °C rated value</li> <li>• at 460/480 V at inside-delta circuit at 50 °C rated value</li> </ul> | 15 hp<br>10 hp<br>10 hp<br>25 hp |
| <b>contact rating of auxiliary contacts according to UL</b>                                                                                                                                                                                                                                          | R300-B300                        |

|                                                                |                                                  |
|----------------------------------------------------------------|--------------------------------------------------|
| Electrical Safety                                              |                                                  |
| <b>protection class IP on the front according to IEC 60529</b> | IP20                                             |
| <b>touch protection on the front according to IEC 60529</b>    | finger-safe, for vertical contact from the front |

|                                                                                                                                                               |                                                                                              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| <b>ATEX</b>                                                                                                                                                   |                                                                                              |
| <b>Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX</b>                                                                                   | SIL 1                                                                                        |
| <b>PFHD with high demand rate according to IEC 61508 relating to ATEX</b>                                                                                     | 5E-7 1/h                                                                                     |
| <b>PFDavg with low demand rate according to IEC 61508 relating to ATEX</b>                                                                                    | 0.008                                                                                        |
| <b>hardware fault tolerance according to IEC 61508 relating to ATEX</b>                                                                                       | 0                                                                                            |
| <b>T1 value for proof test interval or service life according to IEC 61508 relating to ATEX</b>                                                               | 3 a                                                                                          |
| <b>certificate of suitability</b> <ul style="list-style-type: none"> <li>• ATEX</li> <li>• IECEx</li> <li>• according to ATEX directive 2014/34/EU</li> </ul> | Yes<br>Yes<br>BVS 18 ATEX F 003 X                                                            |
| <b>type of protection according to ATEX directive 2014/34/EU</b>                                                                                              | II (2)G [Ex eb Gb] [Ex db Gb] [Ex pxb Gb], II (2)D [Ex tb Db] [Ex pxb Db], I (M2) [Ex db Mb] |

|                                                                                                                                                                                                                                                                                                                                                                |                                                     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|
| <b>Approvals Certificates</b>                                                                                                                                                                                                                                                                                                                                  |                                                     |
| Environmental Product Declaration                                                                                                                                                                                                                                                                                                                              |                                                     |
| <ul style="list-style-type: none"> <li>• global warming potential [CO2 eq] / during manufacturing</li> <li>• global warming potential [CO2 eq] / during sales</li> <li>• global warming potential [CO2 eq] / during operation</li> <li>• global warming potential [CO2 eq] / after end of life</li> <li>• global warming potential [CO2 eq] / total</li> </ul> | 50.8 kg<br>0.827 kg<br>240 kg<br>-7.11 kg<br>285 kg |
| <b>Environment</b>                                                                                                                                                                                                                                                                                                                                             | <b>General Product Approval</b>                     |

[Environmental Confirmations](#)



|                                 |            |                                       |
|---------------------------------|------------|---------------------------------------|
| <b>General Product Approval</b> | <b>EMV</b> | <b>For use in hazardous locations</b> |
| <br>EG-Konf.                    | <br>UKCA   | <br>KC                                |
|                                 | <br>RCM    | <br>IECEx                             |
|                                 |            | <br>ATEX                              |

|                                                    |                             |
|----------------------------------------------------|-----------------------------|
| <b>Test Certificates</b>                           | <b>Maritime application</b> |
| <a href="#">Type Test Certificates/Test Report</a> | <br>ABS                     |
|                                                    | <br>BUREAU VERITAS          |
|                                                    | <br>DNV                     |
|                                                    | <br>LRS                     |
|                                                    | <br>PRS                     |

|                              |
|------------------------------|
| <b>other</b>                 |
| <a href="#">Confirmation</a> |
| <br>产品合格<br>QC PASS          |

|                            |
|----------------------------|
| <b>Further information</b> |
|----------------------------|

**Information on the packaging**

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

**Information for data generation and storage**

<https://support.industry.siemens.com/cs/ww/en/view/109995012>

**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=3RW5515-3HA14>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RW5515-3HA14>

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

[https://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RW5515-3HA14&lang=en](https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5515-3HA14&lang=en)

**Cax online generator**

<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5515-3HA14>

**Kennlinien**

<https://curves.simaris.siemens.com/curves/3RW5515-3HA14>

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

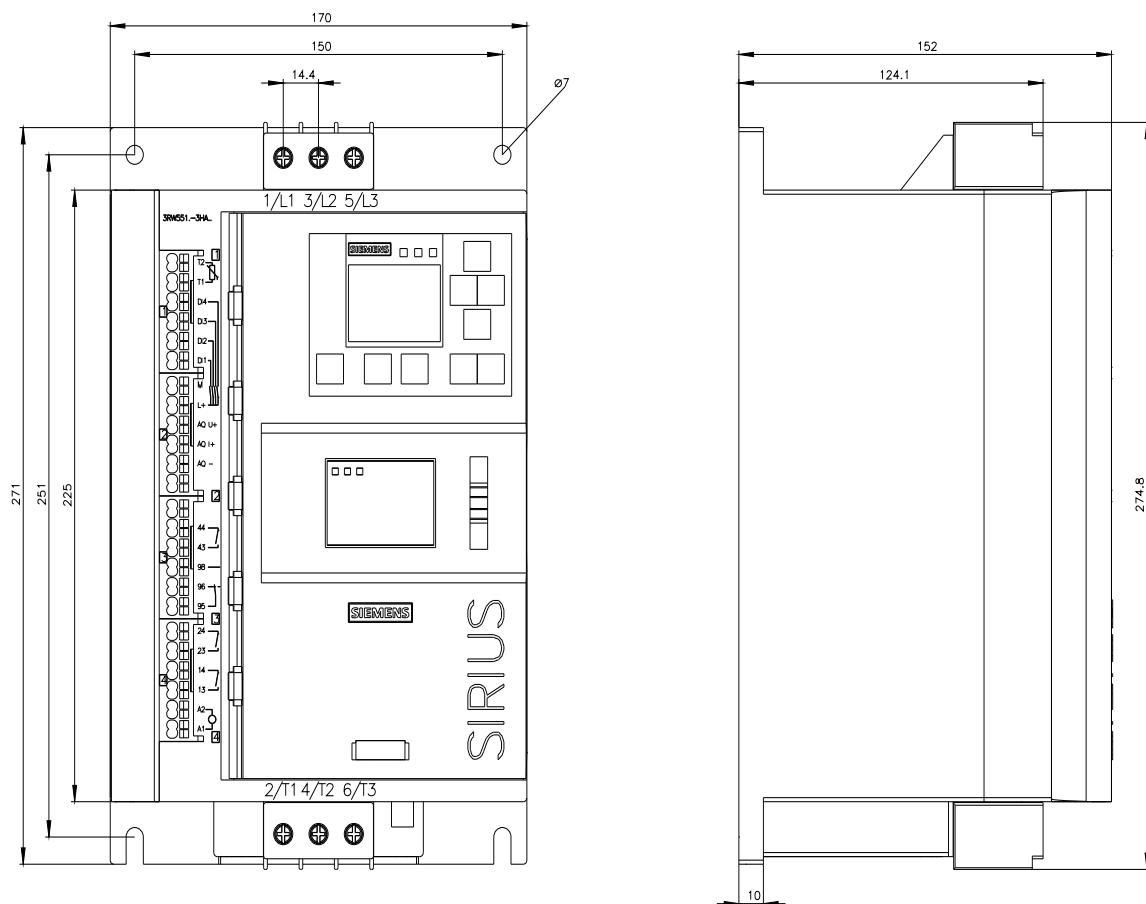
<https://support.industry.siemens.com/cs/ww/en/ps/3RW5515-3HA14/char>

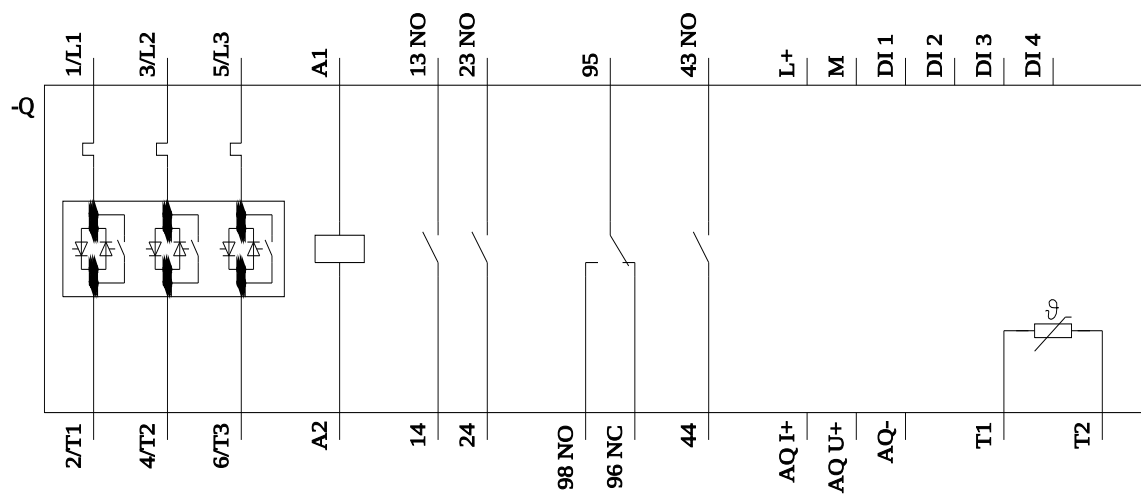
**Characteristic: Installation altitude**

[https://www.automation.siemens.com/bilddb/index.aspx?gridview=view2&objkey=G\\_NSB0\\_XX\\_01704&showdetail=true&view=Search](https://www.automation.siemens.com/bilddb/index.aspx?gridview=view2&objkey=G_NSB0_XX_01704&showdetail=true&view=Search)

**Simulation Tool for Soft Starters (STS)**

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





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10/12/2026 

