



SIRIUS soft starter 200-480 V 250 A, 24 V AC/DC Screw terminals Analog output

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| <b>product brand name</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | SIRIUS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>product category</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Hybrid switching devices                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>product designation</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Soft starter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>product type designation</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 3RW52                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>manufacturer's article number</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <ul style="list-style-type: none"> <li>• of standard HMI module usable</li> <li>• of high feature HMI module usable</li> <li>• of communication module PROFINET standard usable</li> <li>• of communication module PROFIBUS usable</li> <li>• of communication module Modbus TCP usable</li> <li>• of communication module Modbus RTU usable</li> <li>• of communication module Ethernet/IP</li> <li>• of circuit breaker usable at 400 V</li> <li>• of circuit breaker usable at 500 V</li> <li>• of circuit breaker usable at 400 V at inside-delta circuit</li> <li>• of circuit breaker usable at 500 V at inside-delta circuit</li> <li>• of the gG fuse usable up to 690 V</li> <li>• of the gG fuse usable at inside-delta circuit up to 500 V</li> <li>• of full range R fuse link for semiconductor protection usable up to 690 V</li> <li>• of back-up R fuse link for semiconductor protection usable up to 690 V</li> </ul> | <a href="#">3RW5980-0HS00</a><br><a href="#">3RW5980-0HF00</a><br><a href="#">3RW5980-0CS00</a><br><a href="#">3RW5980-0CP00</a><br><a href="#">3RW5980-0CT00</a><br><a href="#">3RW5980-0CR00</a><br><a href="#">3RW5980-0CE00</a><br><a href="#">3VA2440-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10</a><br><a href="#">3VA2440-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10</a><br><a href="#">3VA2450-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10</a><br><a href="#">3VA2450-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10</a><br>2x3NA3354-6; Type of coordination 1, Iq = 65 kA<br>2x3NA3354-6; Type of coordination 1, Iq = 65 kA<br><a href="#">3NE1331-0; Type of coordination 2, Iq = 65 kA</a><br><br><a href="#">3NE3336; Type of coordination 2, Iq = 65 kA</a> |

| General technical data                                                                                                                             |                      |
|----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| <b>starting voltage [%]</b>                                                                                                                        | 30 ... 100 %         |
| <b>stopping voltage [%]</b>                                                                                                                        | 50 %; non-adjustable |
| <b>start-up ramp time of soft starter</b>                                                                                                          | 0 ... 20 s           |
| <b>current limiting value [%] adjustable</b>                                                                                                       | 130 ... 700 %        |
| <b>certificate of suitability</b>                                                                                                                  |                      |
| <ul style="list-style-type: none"> <li>• CE marking</li> <li>• UL approval</li> <li>• CSA approval</li> </ul>                                      | Yes<br>Yes<br>Yes    |
| <b>product component</b>                                                                                                                           |                      |
| <ul style="list-style-type: none"> <li>• HMI-High Feature</li> <li>• is supported HMI-Standard</li> <li>• is supported HMI-High Feature</li> </ul> | No<br>Yes<br>Yes     |
| <b>product feature integrated bypass contact system</b>                                                                                            | Yes                  |
| <b>number of controlled phases</b>                                                                                                                 | 3                    |

|                                                              |                                                                                                                                                                                                                                                                                                                                                                                   |
|--------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>buffering time in the event of power failure</b>          |                                                                                                                                                                                                                                                                                                                                                                                   |
| • for main current circuit                                   | 100 ms                                                                                                                                                                                                                                                                                                                                                                            |
| • for control circuit                                        | 100 ms                                                                                                                                                                                                                                                                                                                                                                            |
| <b>insulation voltage rated value</b>                        | 600 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                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>surge voltage resistance rated value</b>                  | 6 kV                                                                                                                                                                                                                                                                                                                                                                              |
| <b>maximum permissible voltage for protective separation</b> |                                                                                                                                                                                                                                                                                                                                                                                   |
| • between main and auxiliary circuit                         | 600 V                                                                                                                                                                                                                                                                                                                                                                             |
| <b>shock resistance</b>                                      | 15 g / 11 ms, from 12 g / 11 ms with potential contact lifting                                                                                                                                                                                                                                                                                                                    |
| <b>vibration resistance</b>                                  | 15 mm to 6 Hz; 2 g to 500 Hz                                                                                                                                                                                                                                                                                                                                                      |
| 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>Perfluorobutane sulfonic acid (PFBS) and its salts CAS-No. - |
| <b>Net Weight</b>                                            | 9.341 kg                                                                                                                                                                                                                                                                                                                                                                          |
| <b>product function</b>                                      |                                                                                                                                                                                                                                                                                                                                                                                   |
| • ramp-up (soft starting)                                    | Yes                                                                                                                                                                                                                                                                                                                                                                               |
| • soft stopping                                              | Yes                                                                                                                                                                                                                                                                                                                                                                               |
| • Soft Torque                                                | Yes                                                                                                                                                                                                                                                                                                                                                                               |
| • adjustable current limitation                              | Yes                                                                                                                                                                                                                                                                                                                                                                               |
| • pump stop                                                  | Yes                                                                                                                                                                                                                                                                                                                                                                               |
| • intrinsic device protection                                | Yes                                                                                                                                                                                                                                                                                                                                                                               |
| • motor overload protection                                  | Yes; Electronic motor overload protection                                                                                                                                                                                                                                                                                                                                         |
| • evaluation of thermistor motor protection                  | No                                                                                                                                                                                                                                                                                                                                                                                |
| • inside-delta circuit                                       | Yes                                                                                                                                                                                                                                                                                                                                                                               |
| • auto-RESET                                                 | Yes                                                                                                                                                                                                                                                                                                                                                                               |
| • manual RESET                                               | Yes                                                                                                                                                                                                                                                                                                                                                                               |
| • remote reset                                               | Yes; By turning off the control supply voltage                                                                                                                                                                                                                                                                                                                                    |
| • communication function                                     | Yes                                                                                                                                                                                                                                                                                                                                                                               |
| • operating measured value display                           | Yes; Only in conjunction with special accessories                                                                                                                                                                                                                                                                                                                                 |
| • error logbook                                              | Yes; Only in conjunction with special accessories                                                                                                                                                                                                                                                                                                                                 |
| • via software parameterizable                               | No                                                                                                                                                                                                                                                                                                                                                                                |
| • via software configurable                                  | Yes                                                                                                                                                                                                                                                                                                                                                                               |
| • <b>PROFInergy</b>                                          | Yes; in connection with the PROFINET Standard communication module                                                                                                                                                                                                                                                                                                                |
| • <b>firmware update</b>                                     | Yes                                                                                                                                                                                                                                                                                                                                                                               |
| • <b>removable terminal for control circuit</b>              | Yes                                                                                                                                                                                                                                                                                                                                                                               |
| • torque control                                             | No                                                                                                                                                                                                                                                                                                                                                                                |
| • analog output                                              | Yes; 4 ... 20 mA (default) / 0 ... 10 V (parameterizable with High Feature HMI)                                                                                                                                                                                                                                                                                                   |
| <b>Power Electronics</b>                                     |                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>operational current</b>                                   |                                                                                                                                                                                                                                                                                                                                                                                   |
| • at 40 °C rated value                                       | 250 A                                                                                                                                                                                                                                                                                                                                                                             |
| • at 50 °C rated value                                       | 220 A                                                                                                                                                                                                                                                                                                                                                                             |
| • at 60 °C rated value                                       | 200 A                                                                                                                                                                                                                                                                                                                                                                             |
| <b>operational current at inside-delta circuit</b>           |                                                                                                                                                                                                                                                                                                                                                                                   |
| • at 40 °C rated value                                       | 433 A                                                                                                                                                                                                                                                                                                                                                                             |
| • at 50 °C rated value                                       | 381 A                                                                                                                                                                                                                                                                                                                                                                             |
| • at 60 °C rated value                                       | 346 A                                                                                                                                                                                                                                                                                                                                                                             |
| <b>operating voltage</b>                                     |                                                                                                                                                                                                                                                                                                                                                                                   |
| • rated value                                                | 200 ... 480 V                                                                                                                                                                                                                                                                                                                                                                     |
| • at inside-delta circuit rated value                        | 200 ... 480 V                                                                                                                                                                                                                                                                                                                                                                     |
| <b>relative negative tolerance of the operating voltage</b>  | -15 %                                                                                                                                                                                                                                                                                                                                                                             |

|                                                                                     |        |
|-------------------------------------------------------------------------------------|--------|
| <b>relative positive tolerance of the operating voltage</b>                         | 10 %   |
| <b>relative negative tolerance of the operating voltage at inside-delta circuit</b> | -15 %  |
| <b>relative positive tolerance of the operating voltage at inside-delta circuit</b> | 10 %   |
| <b>operating power for 3-phase motors</b>                                           |        |
| • at 230 V at 40 °C rated value                                                     | 75 kW  |
| • at 230 V at inside-delta circuit at 40 °C rated value                             | 132 kW |
| • at 400 V at 40 °C rated value                                                     | 132 kW |
| • at 400 V at inside-delta circuit at 40 °C rated value                             | 250 kW |
| <b>Operating frequency 1 rated value</b>                                            | 50 Hz  |
| <b>Operating frequency 2 rated value</b>                                            | 60 Hz  |
| <b>relative negative tolerance of the operating frequency</b>                       | -10 %  |
| <b>relative positive tolerance of the operating frequency</b>                       | 10 %   |
| <b>adjustable motor current</b>                                                     |        |
| • at rotary coding switch on switch position 1                                      | 100 A  |
| • at rotary coding switch on switch position 2                                      | 110 A  |
| • at rotary coding switch on switch position 3                                      | 120 A  |
| • at rotary coding switch on switch position 4                                      | 130 A  |
| • at rotary coding switch on switch position 5                                      | 140 A  |
| • at rotary coding switch on switch position 6                                      | 150 A  |
| • at rotary coding switch on switch position 7                                      | 160 A  |
| • at rotary coding switch on switch position 8                                      | 170 A  |
| • at rotary coding switch on switch position 9                                      | 180 A  |
| • at rotary coding switch on switch position 10                                     | 190 A  |
| • at rotary coding switch on switch position 11                                     | 200 A  |
| • at rotary coding switch on switch position 12                                     | 210 A  |
| • at rotary coding switch on switch position 13                                     | 220 A  |
| • at rotary coding switch on switch position 14                                     | 230 A  |
| • at rotary coding switch on switch position 15                                     | 240 A  |
| • at rotary coding switch on switch position 16                                     | 250 A  |
| • minimum                                                                           | 100 A  |
| <b>adjustable motor current</b>                                                     |        |
| • for inside-delta circuit at rotary coding switch on switch position 1             | 173 A  |
| • for inside-delta circuit at rotary coding switch on switch position 2             | 191 A  |
| • for inside-delta circuit at rotary coding switch on switch position 3             | 208 A  |
| • for inside-delta circuit at rotary coding switch on switch position 4             | 225 A  |
| • for inside-delta circuit at rotary coding switch on switch position 5             | 242 A  |
| • for inside-delta circuit at rotary coding switch on switch position 6             | 260 A  |
| • for inside-delta circuit at rotary coding switch on switch position 7             | 277 A  |
| • for inside-delta circuit at rotary coding switch on switch position 8             | 294 A  |
| • for inside-delta circuit at rotary coding switch on switch position 9             | 312 A  |
| • for inside-delta circuit at rotary coding switch on switch position 10            | 329 A  |
| • for inside-delta circuit at rotary coding switch on switch position 11            | 346 A  |
| • for inside-delta circuit at rotary coding switch on switch position 12            | 364 A  |
| • for inside-delta circuit at rotary coding switch on switch position 13            | 381 A  |
| • for inside-delta circuit at rotary coding switch on switch position 14            | 398 A  |
| • for inside-delta circuit at rotary coding switch on switch position 15            | 416 A  |
| • for inside-delta circuit at rotary coding switch on switch                        | 433 A  |

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| position 16                                                                     |                                                                                                                                                                                                                                    |
| • at inside-delta circuit minimum                                               | 173 A                                                                                                                                                                                                                              |
| <b>minimum load [%]</b>                                                         | 15 %; Relative to smallest settable I <sub>e</sub>                                                                                                                                                                                 |
| <b>power loss [W] for rated value of the current at AC</b>                      |                                                                                                                                                                                                                                    |
| • at 40 °C after startup                                                        | 87 W                                                                                                                                                                                                                               |
| • at 50 °C after startup                                                        | 78 W                                                                                                                                                                                                                               |
| • at 60 °C after startup                                                        | 72 W                                                                                                                                                                                                                               |
| <b>power loss [W] at AC at current limitation 350%</b>                          |                                                                                                                                                                                                                                    |
| • at 40 °C during startup                                                       | 3 818 W                                                                                                                                                                                                                            |
| • at 50 °C during startup                                                       | 3 188 W                                                                                                                                                                                                                            |
| • at 60 °C during startup                                                       | 2 799 W                                                                                                                                                                                                                            |
| <b>Control circuit/ Control</b>                                                 |                                                                                                                                                                                                                                    |
| <b>type of voltage of the control supply voltage</b>                            | AC/DC                                                                                                                                                                                                                              |
| <b>control supply voltage at AC</b>                                             |                                                                                                                                                                                                                                    |
| • at 50 Hz rated value                                                          | 24 V                                                                                                                                                                                                                               |
| • at 60 Hz rated value                                                          | 24 V                                                                                                                                                                                                                               |
| <b>relative negative tolerance of the control supply voltage at AC at 50 Hz</b> | -20 %                                                                                                                                                                                                                              |
| <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>                                         | 50 ... 60 Hz                                                                                                                                                                                                                       |
| <b>relative negative tolerance of the control supply voltage frequency</b>      | -10 %                                                                                                                                                                                                                              |
| <b>relative positive tolerance of the control supply voltage frequency</b>      | 10 %                                                                                                                                                                                                                               |
| <b>control supply voltage at DC rated value</b>                                 | 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>inrush current by closing the bypass contacts 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 (I <sub>cu</sub> =1 kA), 6 A quick-acting fuse (I <sub>cu</sub> =1 kA), C1 miniature circuit breaker (I <sub>cu</sub> = 600 A), C6 miniature circuit breaker (I <sub>cu</sub> = 300 A); Is not part of scope of supply |
| <b>Inputs/ Outputs</b>                                                          |                                                                                                                                                                                                                                    |
| <b>number of digital inputs</b>                                                 | 1                                                                                                                                                                                                                                  |
| <b>number of digital outputs</b>                                                | 3                                                                                                                                                                                                                                  |
| • not parameterizable                                                           | 2                                                                                                                                                                                                                                  |
| <b>digital output version</b>                                                   | 2 normally-open contacts (NO) / 1 changeover contact (CO)                                                                                                                                                                          |
| <b>number of analog outputs</b>                                                 | 1                                                                                                                                                                                                                                  |
| <b>switching capacity current of the relay outputs</b>                          |                                                                                                                                                                                                                                    |
| • at AC-15 at 250 V rated value                                                 | 3 A                                                                                                                                                                                                                                |
| • at DC-13 at 24 V rated value                                                  | 1 A                                                                                                                                                                                                                                |
| <b>Installation/ mounting/ dimensions</b>                                       |                                                                                                                                                                                                                                    |
| <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>                              |                                                                                                                                                                                                                                    |
| • forwards                                                                      | 10 mm                                                                                                                                                                                                                              |

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| <ul style="list-style-type: none"> <li>• backwards</li> <li>• upwards</li> <li>• downwards</li> <li>• at the side</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0 mm<br>100 mm<br>75 mm<br>5 mm                                                                                                                                                                                                                                                                                                                                                                            |
| <b>weight without packaging</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 9.9 kg                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Connections/ Terminals</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                            |
| <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<br>screw-type terminals                                                                                                                                                                                                                                                                                                                                                                  |
| <b>width of connection bar maximum</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 45 mm                                                                                                                                                                                                                                                                                                                                                                                                      |
| <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 mm <sup>2</sup> )<br>2x (70 ... 240 mm <sup>2</sup> )                                                                                                                                                                                                                                                                                                                                       |
| <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> </ul>                                                                                                                                                                                                                                                                                                                                                                          | 1x (0.5 ... 4.0 mm <sup>2</sup> ), 2x (0.5 ... 2.5 mm <sup>2</sup> )<br>1x (0.5 ... 2.5 mm <sup>2</sup> ), 2x (0.5 ... 1.5 mm <sup>2</sup> )<br>1x (20 ... 12), 2x (20 ... 14)                                                                                                                                                                                                                             |
| <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                                                                                                                                                                                                                                                                                                                                                                                                    |
| <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                                                                                                                                                                                                                                                                                                                                                                             |
| <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>• 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>— 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</li> </ul> </li> </ul> | Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA<br>Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA<br>Siemens type: 3VA54, max. 600 A; Iq = 18 kA<br>Siemens type: 3VA54, max. 600 A; Iq max = 65 kA<br>Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA<br>Siemens type: 3VA54, max. 600 A; Iq = 18 kA<br>Type: Class J / L, max. 800 A; Iq = 18 kA |



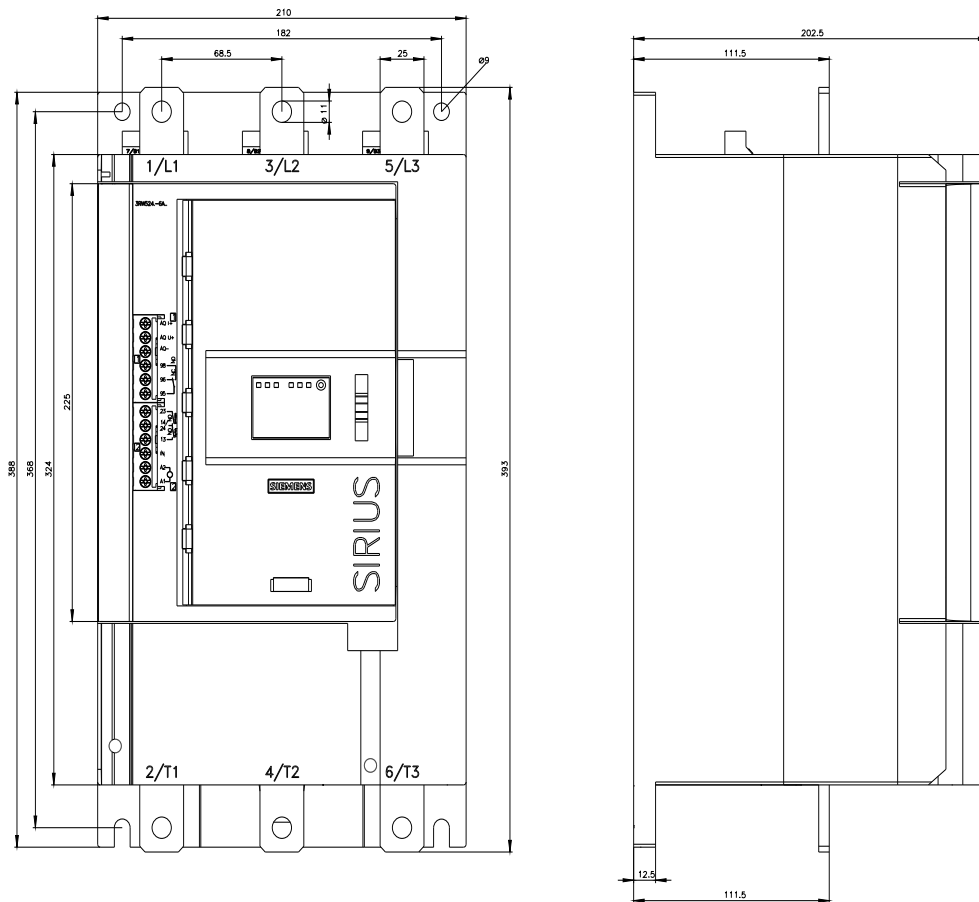
<https://support.industry.siemens.com/cs/ww/en/ps/3RW5244-6AC04/char>

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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