



SIRIUS soft starter 200-690 V 470 A, 110-250 V AC Screw terminals

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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>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 3RW55                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>manufacturer's article number</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <ul style="list-style-type: none"> <li>• of high feature HMI module usable</li> <li>• of communication module PROFINET standard usable</li> <li>• of communication module PROFINET high-feature 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="#">3RW5980-0HF00</a><br><a href="#">3RW5980-0CS00</a><br><a href="#">3RW5950-0CH00</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="#">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><a href="#">3VA2510-6HN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10</a><br><a href="#">3VA2510-6HN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10</a><br><br>2x3NA3365-6; Type of coordination 1, Iq = 65 kA<br>2x3NA3365-6; Type of coordination 1, Iq = 65 kA<br><br><a href="#">3NE1436-2; Type of coordination 2, Iq = 65 kA</a><br><br><a href="#">3NE3340-8; Type of coordination 2, Iq = 65 kA</a> |

| General technical data                       |               |
|----------------------------------------------|---------------|
| <b>starting voltage [%]</b>                  | 20 ... 100 %  |
| <b>stopping voltage [%]</b>                  | 50 ... 50 %   |
| <b>start-up ramp time of soft starter</b>    | 0 ... 360 s   |
| <b>ramp-down time of soft starter</b>        | 0 ... 360 s   |
| <b>start torque [%]</b>                      | 10 ... 100 %  |
| <b>stopping torque [%]</b>                   | 10 ... 100 %  |
| <b>torque limitation [%]</b>                 | 20 ... 200 %  |
| <b>current limiting value [%] adjustable</b> | 125 ... 800 % |
| <b>breakaway voltage [%] adjustable</b>      | 40 ... 100 %  |
| <b>breakaway time adjustable</b>             | 0 ... 2 s     |
| <b>number of parameter sets</b>              | 3             |
| <b>accuracy class acc. to IEC 61557-12</b>   | 5 %           |
| <b>certificate of suitability</b>            |               |

|                                                         |                                                                                                   |
|---------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| • CE marking                                            | Yes                                                                                               |
| • UL approval                                           | Yes                                                                                               |
| • CSA approval                                          | Yes                                                                                               |
| <b>product component</b>                                |                                                                                                   |
| • HMI-High Feature                                      | Yes                                                                                               |
| • is supported HMI-High Feature                         | Yes                                                                                               |
| <b>product feature integrated bypass contact system</b> | Yes                                                                                               |
| <b>number of controlled phases</b>                      | 3                                                                                                 |
| <b>trip class</b>                                       | CLASS 10A / 10E (default) / 20E / 30E; acc. to IEC 60947-4-2                                      |
| <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>     |                                                                                                   |
| • for main current circuit                              | 100 ms                                                                                            |
| • for control circuit                                   | 100 ms                                                                                            |
| <b>idle time adjustable</b>                             | 0 ... 255 s                                                                                       |
| insulation voltage rated value                          | 690 V                                                                                             |
| <b>degree of pollution</b>                              | 3, acc. to IEC 60947-4-2                                                                          |
| <b>impulse voltage rated value</b>                      | 8 kV                                                                                              |
| <b>blocking voltage of the thyristor maximum</b>        | 1 800 V                                                                                           |
| <b>service factor</b>                                   | 1.15                                                                                              |
| <b>surge voltage resistance rated value</b>             | 8 kV                                                                                              |
| <b>maximum permissible voltage for safe isolation</b>   |                                                                                                   |
| • between main and auxiliary circuit                    | 690 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 acc. to IEC 60947-4-2              | AC 53a                                                                                            |
| <b>reference code acc. to IEC 81346-2</b>               | Q                                                                                                 |
| <b>Substance Prohibitance (Date)</b>                    | 15.02.2018                                                                                        |
| <b>product function</b>                                 |                                                                                                   |
| • ramp-up (soft starting)                               | Yes                                                                                               |
| • ramp-down (soft stop)                                 | Yes                                                                                               |
| • breakaway pulse                                       | Yes                                                                                               |
| • adjustable current limitation                         | Yes                                                                                               |
| • creep speed in both directions of rotation            | Yes                                                                                               |
| • pump ramp down                                        | Yes                                                                                               |
| • DC braking                                            | Yes                                                                                               |
| • motor heating                                         | Yes                                                                                               |
| • slave pointer function                                | Yes                                                                                               |
| • trace function                                        | Yes                                                                                               |
| • intrinsic device protection                           | Yes                                                                                               |
| • motor overload protection                             | Yes; Full motor protection (thermistor motor protection and electronic motor overload protection) |
| • evaluation of thermistor motor protection             | Yes; Type A PTC or Klaxon / Thermoclick                                                           |
| • inside-delta circuit                                  | Yes; Only up to 600 V operating voltage                                                           |
| • auto-RESET                                            | Yes                                                                                               |
| • manual RESET                                          | Yes                                                                                               |
| • remote reset                                          | Yes                                                                                               |
| • communication function                                | Yes                                                                                               |
| • operating measured value display                      | Yes                                                                                               |
| • event list                                            | Yes                                                                                               |
| • error logbook                                         | Yes                                                                                               |
| • via software parameterizable                          | Yes                                                                                               |
| • via software configurable                             | Yes                                                                                               |
| • screw terminal                                        | Yes                                                                                               |
| • spring-loaded terminal                                | No                                                                                                |
| • <b>PROFinergy</b>                                     | Yes; in connection with the PROFINET Standard and PROFINET High-Feature communication modules     |
| • <b>firmware update</b>                                | Yes                                                                                               |
| • <b>removable terminal for control circuit</b>         | Yes                                                                                               |
| • voltage ramp                                          | Yes                                                                                               |

|                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                               |
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| <ul style="list-style-type: none"> <li>• torque control</li> <li>• combined braking</li> <li>• analog output</li> <li>• programmable control inputs/outputs</li> <li>• condition monitoring</li> <li>• automatic parameterisation</li> <li>• application wizards</li> <li>• alternative run-down</li> <li>• emergency operation mode</li> <li>• reversing operation</li> <li>• soft starting at heavy starting conditions</li> </ul> | Yes<br>Yes<br>Yes; 4 ... 20 mA (default) / 0 ... 10 V<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes |
| <b>Power Electronics</b>                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                               |
| <b>operational current</b>                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                               |
| <ul style="list-style-type: none"> <li>• at 40 °C rated value</li> <li>• at 40 °C rated value minimum</li> <li>• at 50 °C rated value</li> <li>• at 60 °C rated value</li> </ul>                                                                                                                                                                                                                                                     | 470 A<br>94 A<br>416 A<br>380 A                                                                               |
| <b>operational current at inside-delta circuit</b>                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                               |
| <ul style="list-style-type: none"> <li>• at 40 °C rated value</li> <li>• at 50 °C rated value</li> <li>• at 60 °C rated value</li> </ul>                                                                                                                                                                                                                                                                                             | 814 A<br>721 A<br>658 A                                                                                       |
| <b>operating voltage</b>                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                               |
| <ul style="list-style-type: none"> <li>• rated value</li> <li>• at inside-delta circuit rated value</li> </ul>                                                                                                                                                                                                                                                                                                                       | 200 ... 690 V<br>200 ... 600 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>                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                               |
| <ul style="list-style-type: none"> <li>• at 230 V at 40 °C rated value</li> <li>• at 230 V at inside-delta circuit at 40 °C rated value</li> <li>• at 400 V at 40 °C rated value</li> <li>• at 400 V at inside-delta circuit at 40 °C rated value</li> <li>• at 500 V at 40 °C rated value</li> <li>• at 500 V at inside-delta circuit at 40 °C rated value</li> <li>• at 690 V at 40 °C rated value</li> </ul>                      | 132 kW<br>250 kW<br>250 kW<br>400 kW<br>315 kW<br>500 kW<br>400 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>minimum load [%]</b>                                                                                                                                                                                                                                                                                                                                                                                                              | 10 %; Relative to set I <sub>e</sub>                                                                          |
| <b>power loss [W] for rated value of the current at AC</b>                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                               |
| <ul style="list-style-type: none"> <li>• at 40 °C after startup</li> <li>• at 50 °C after startup</li> <li>• at 60 °C after startup</li> </ul>                                                                                                                                                                                                                                                                                       | 141 W<br>125 W<br>114 W                                                                                       |
| <b>power loss [W] at AC at current limitation 350 %</b>                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                               |
| <ul style="list-style-type: none"> <li>• at 40 °C during startup</li> <li>• at 50 °C during startup</li> <li>• at 60 °C during startup</li> </ul>                                                                                                                                                                                                                                                                                    | 7 651 W<br>6 400 W<br>5 620 W                                                                                 |
| <b>type of the motor protection</b>                                                                                                                                                                                                                                                                                                                                                                                                  | Electronic, tripping in the event of thermal overload of the motor                                            |
| <b>Control circuit/ Control</b>                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                               |
| <b>type of voltage of the control supply voltage</b>                                                                                                                                                                                                                                                                                                                                                                                 | AC                                                                                                            |
| <b>control supply voltage at AC</b>                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                               |
| <ul style="list-style-type: none"> <li>• at 50 Hz</li> <li>• at 60 Hz</li> </ul>                                                                                                                                                                                                                                                                                                                                                     | 110 ... 250 V<br>110 ... 250 V                                                                                |
| <b>relative negative tolerance of the control supply voltage at AC at 50 Hz</b>                                                                                                                                                                                                                                                                                                                                                      | -15 %                                                                                                         |
| <b>relative positive tolerance of the control supply voltage at AC at 50 Hz</b>                                                                                                                                                                                                                                                                                                                                                      | 10 %                                                                                                          |

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| <b>relative negative tolerance of the control supply voltage at AC at 60 Hz</b> | -15 %                                                                                                                                                                          |
| <b>relative positive tolerance of the control supply voltage at AC at 60 Hz</b> | 10 %                                                                                                                                                                           |
| <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 current in standby mode rated value</b>                       | 100 mA                                                                                                                                                                         |
| <b>holding current in bypass operation rated value</b>                          | 150 mA                                                                                                                                                                         |
| <b>locked-rotor current at close of bypass contact maximum</b>                  | 0.87 A                                                                                                                                                                         |
| <b>inrush current peak at application of control supply voltage maximum</b>     | 43 A                                                                                                                                                                           |
| <b>duration of inrush current peak at application of control supply voltage</b> | 1.6 ms                                                                                                                                                                         |
| <b>design of the overvoltage protection</b>                                     | Varistor                                                                                                                                                                       |
| <b>design of short-circuit protection for control circuit</b>                   | 4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply |
| <b>Inputs/ Outputs</b>                                                          |                                                                                                                                                                                |
| <b>number of digital inputs</b>                                                 | 4                                                                                                                                                                              |
| • parameterizable                                                               | 4                                                                                                                                                                              |
| • <b>number of digital outputs</b>                                              | 4                                                                                                                                                                              |
| • number of digital outputs parameterizable                                     | 3                                                                                                                                                                              |
| • number of digital outputs not parameterizable                                 | 1                                                                                                                                                                              |
| <b>digital output version</b>                                                   | 3 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>                                                        | Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°)                                                                                                     |
| <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                                                                                                                                                                          |
| • backwards                                                                     | 0 mm                                                                                                                                                                           |
| • upwards                                                                       | 100 mm                                                                                                                                                                         |
| • downwards                                                                     | 75 mm                                                                                                                                                                          |
| • at the side                                                                   | 5 mm                                                                                                                                                                           |
| <b>weight without packaging</b>                                                 | 10.9 kg                                                                                                                                                                        |
| <b>Connections/ Terminals</b>                                                   |                                                                                                                                                                                |
| <b>type of electrical connection</b>                                            |                                                                                                                                                                                |
| • for main current circuit                                                      | busbar connection                                                                                                                                                              |
| • for control circuit                                                           | screw-type terminals                                                                                                                                                           |
| <b>width of connection bar maximum</b>                                          | 45 mm                                                                                                                                                                          |
| <b>wire length for thermistor connection</b>                                    |                                                                                                                                                                                |
| • 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                                                                                                                                                                          |
| <b>type of connectable conductor cross-sections</b>                             |                                                                                                                                                                                |
| • for DIN cable lug for main contacts stranded                                  | 2x (50 ... 240 mm²)                                                                                                                                                            |
| • for DIN cable lug for main contacts finely stranded                           | 2x (70 ... 240 mm²)                                                                                                                                                            |
| <b>type of connectable conductor cross-sections</b>                             |                                                                                                                                                                                |
| • for control circuit solid                                                     | 1x (0.5 ... 4.0 mm²), 2x (0.5 ... 2.5 mm²)                                                                                                                                     |
| • for control circuit finely stranded with core end processing                  | 1x (0.5 ... 2.5 mm²), 2x (0.5 ... 1.5 mm²)                                                                                                                                     |
| • at AWG cables for control circuit solid                                       | 1x (20 ... 12), 2x (20 ... 14)                                                                                                                                                 |

|                                                                                      |                                                                                                                         |
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| <b>wire length</b>                                                                   |                                                                                                                         |
| • between soft starter and motor maximum                                             | 800 m                                                                                                                   |
| • at the digital inputs at DC maximum                                                | 1 000 m                                                                                                                 |
| <b>tightening torque</b>                                                             |                                                                                                                         |
| • for main contacts with screw-type terminals                                        | 14 ... 24 N·m                                                                                                           |
| • for auxiliary and control contacts with screw-type terminals                       | 0.8 ... 1.2 N·m                                                                                                         |
| <b>tightening torque [lbf·in]</b>                                                    |                                                                                                                         |
| • for main contacts with screw-type terminals                                        | 124 ... 210 lbf·in                                                                                                      |
| • for auxiliary and control contacts with screw-type terminals                       | 7 ... 10.3 lbf·in                                                                                                       |
| <b>Ambient conditions</b>                                                            |                                                                                                                         |
| installation altitude at height above sea level maximum                              | 2 000 m; Derating as of 1000 m, see catalog                                                                             |
| <b>ambient temperature</b>                                                           |                                                                                                                         |
| • during operation                                                                   | -25 ... +60 °C; Please observe derating at temperatures of 40 °C or above                                               |
| • during storage and transport                                                       | -40 ... +80 °C                                                                                                          |
| <b>environmental category</b>                                                        |                                                                                                                         |
| • during operation acc. to IEC 60721                                                 | 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 |
| • during storage acc. to IEC 60721                                                   | 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4                 |
| • during transport acc. to IEC 60721                                                 | 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)                                                                             |
| <b>EMC emitted interference</b>                                                      |                                                                                                                         |
|                                                                                      | acc. to IEC 60947-4-2: Class A                                                                                          |
| <b>Communication/ Protocol</b>                                                       |                                                                                                                         |
| <b>communication module is supported</b>                                             |                                                                                                                         |
| • PROFINET standard                                                                  | Yes                                                                                                                     |
| • PROFINET high-feature                                                              | Yes                                                                                                                     |
| • EtherNet/IP                                                                        | Yes                                                                                                                     |
| • Modbus RTU                                                                         | Yes                                                                                                                     |
| • Modbus TCP                                                                         | Yes                                                                                                                     |
| • PROFIBUS                                                                           | Yes                                                                                                                     |
| <b>UL/CSA ratings</b>                                                                |                                                                                                                         |
| <b>manufacturer's article number</b>                                                 |                                                                                                                         |
| • of the fuse                                                                        |                                                                                                                         |
| — usable for Standard Faults up to 575/600 V according to UL                         | Type: Class J / L, max. 1600 A; Iq = 30 kA                                                                              |
| — usable for High Faults up to 575/600 V according to UL                             | Type: Class J / L, max. 1200 A; Iq = 100 kA                                                                             |
| — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL | Type: Class J / L, max. 1600 A; Iq = 30 kA                                                                              |
| — usable for High Faults at inside-delta circuit up to 575/600 V according to UL     | Type: Class J / L, max. 1200 A; Iq = 100 kA                                                                             |
| <b>operating power [hp] for 3-phase motors</b>                                       |                                                                                                                         |
| • at 200/208 V at 50 °C rated value                                                  | 150 hp                                                                                                                  |
| • at 220/230 V at 50 °C rated value                                                  | 150 hp                                                                                                                  |
| • at 460/480 V at 50 °C rated value                                                  | 350 hp                                                                                                                  |
| • at 575/600 V at 50 °C rated value                                                  | 450 hp                                                                                                                  |
| • at 200/208 V at inside-delta circuit at 50 °C rated value                          | 250 hp                                                                                                                  |
| • at 220/230 V at inside-delta circuit at 50 °C rated value                          | 250 hp                                                                                                                  |
| • at 460/480 V at inside-delta circuit at 50 °C rated value                          | 600 hp                                                                                                                  |
| • at 575/600 V at inside-delta circuit at 50 °C rated value                          | 800 hp                                                                                                                  |
| <b>contact rating of auxiliary contacts according to UL</b>                          |                                                                                                                         |
|                                                                                      | R300-B300                                                                                                               |
| <b>Safety related data</b>                                                           |                                                                                                                         |
| protection class IP on the front acc. to IEC 60529                                   | IP00; IP20 with cover                                                                                                   |
| touch protection on the front acc. to IEC 60529                                      | finger-safe, for vertical contact from the front with cover                                                             |
| electromagnetic compatibility                                                        | acc. to IEC 60947-4-2                                                                                                   |
| <b>ATEX</b>                                                                          |                                                                                                                         |

|                                                                                                                             |                                                                                              |
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| <b>certificate of suitability</b>                                                                                           | Yes<br>Yes<br>BVS 18 ATEX F 003 X                                                            |
| <ul style="list-style-type: none"> <li>• ATEX</li> <li>• IECEx</li> <li>• according to ATEX directive 2014/34/EU</li> </ul> |                                                                                              |
| <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>hardware fault tolerance acc. to IEC 61508 relating to ATEX</b>                                                          | 0                                                                                            |
| <b>PFDavg with low demand rate acc. to IEC 61508 relating to ATEX</b>                                                       | 0.008                                                                                        |
| <b>PFHD with high demand rate acc. to EN 62061 relating to ATEX</b>                                                         | 0.0000005 1/h                                                                                |
| <b>Safety Integrity Level (SIL) acc. to IEC 61508 relating to ATEX</b>                                                      | SIL1                                                                                         |
| <b>T1 value for proof test interval or service life acc. to IEC 61508 relating to ATEX</b>                                  | 3 y                                                                                          |

#### Certificates/ approvals

|                          |     |                                |
|--------------------------|-----|--------------------------------|
| General Product Approval | EMC | For use in hazardous locations |
|--------------------------|-----|--------------------------------|



|                                |                           |                   |                   |
|--------------------------------|---------------------------|-------------------|-------------------|
| For use in hazardous locations | Declaration of Conformity | Test Certificates | Marine / Shipping |
|--------------------------------|---------------------------|-------------------|-------------------|



[Type Test Certificates/Test Report](#)



|                   |       |
|-------------------|-------|
| Marine / Shipping | other |
|-------------------|-------|



[Confirmation](#)

#### Further information

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

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

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW5547-6HA16>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5547-6HA16>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RW5547-6HA16>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RW5547-6HA16&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5547-6HA16&lang=en)

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

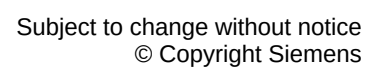
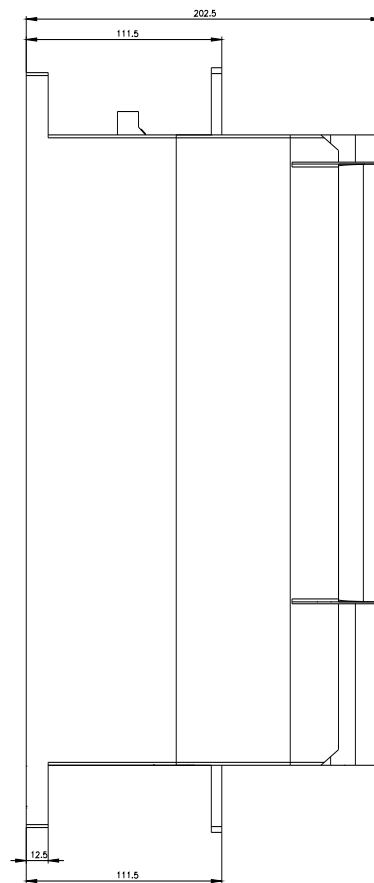
<https://support.industry.siemens.com/cs/ww/en/ps/3RW5547-6HA16/char>

Characteristic: Installation altitude

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5547-6HA16&objecttype=14&gridview=view1>

Simulation Tool for Soft Starters (STS)

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







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