



SIRIUS soft starter 200-480 V 250 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 <a href="#">3RW5980-0HF00</a></li> <li>• of communication module PROFINET standard usable <a href="#">3RW5980-0CS00</a></li> <li>• of communication module PROFINET high-feature usable <a href="#">3RW5950-0CH00</a></li> <li>• of communication module PROFIBUS usable <a href="#">3RW5980-0CP00</a></li> <li>• of communication module Modbus TCP usable <a href="#">3RW5980-0CT00</a></li> <li>• of communication module Modbus RTU usable <a href="#">3RW5980-0CR00</a></li> <li>• of communication module Ethernet/IP <a href="#">3RW5980-0CE00</a></li> <li>• of circuit breaker usable at 400 V <a href="#">3VA2440-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10</a></li> <li>• of circuit breaker usable at 500 V <a href="#">3VA2440-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10</a></li> <li>• of circuit breaker usable at 400 V at inside-delta circuit <a href="#">3VA2450-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10</a></li> <li>• of circuit breaker usable at 500 V at inside-delta circuit <a href="#">3VA2450-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10</a></li> <li>• of the gG fuse usable up to 690 V <a href="#">2x3NA3354-6; Type of coordination 1, Iq = 65 kA</a></li> <li>• of the gG fuse usable at inside-delta circuit up to 500 V <a href="#">2x3NA3354-6; Type of coordination 1, Iq = 65 kA</a></li> <li>• of full range R fuse link for semiconductor protection usable up to 690 V <a href="#">3NE1331-0; Type of coordination 2, Iq = 65 kA</a></li> <li>• of back-up R fuse link for semiconductor protection usable up to 690 V <a href="#">3NE3335; Type of coordination 2, Iq = 65 kA</a></li> </ul> |
| <b>General technical data</b>                |  |
| <b>starting voltage [%]</b>                  | 20 ... 100 %   |
| <b>stopping voltage [%]</b>                  | 50 %; non-adjustable   |
| <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</b>                        | 5 (based on IEC 61557-12)  |
| <b>certificate of suitability</b>            | <ul style="list-style-type: none"> <li>• CE marking Yes</li> <li>• UL approval Yes</li> </ul>  |

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| <ul style="list-style-type: none"> <li>• CSA approval</li> </ul>                               | Yes  |
| <b>product component</b>   |  |
| <ul style="list-style-type: none"> <li>• HMI-High Feature</li> </ul>                           | Yes  |
| <ul style="list-style-type: none"> <li>• is supported HMI-High Feature</li> </ul>              | Yes  |
| <b>product feature integrated bypass contact system</b>  | Yes  |
| <b>number of controlled phases</b>   | 3  |
| <b>current unbalance limiting value [%]</b>  | 10 ... 60 %  |
| <b>ground-fault monitoring limiting value [%]</b>  | 10 ... 95 %  |
| <b>buffering time in the event of power failure</b>  |  |
| <ul style="list-style-type: none"> <li>• for main current circuit</li> </ul>                   | 100 ms   |
| <ul style="list-style-type: none"> <li>• for control circuit</li> </ul>                        | 100 ms   |
| <b>idle time adjustable</b>  | 0 ... 255 s  |
| <b>insulation voltage rated value</b>  | 480 V  |
| <b>degree of pollution</b>   | 3, acc. to IEC 60947-4-2   |
| <b>impulse voltage rated value</b>   | 6 kV   |
| <b>blocking voltage of the thyristor maximum</b>   | 1 400 V  |
| <b>service factor</b>  | 1.15   |
| <b>surge voltage resistance rated value</b>  | 6 kV   |
| <b>maximum permissible voltage for protective separation</b>                                   |  |
| <ul style="list-style-type: none"> <li>• between main and auxiliary circuit</li> </ul>         | 480 V; does not apply for thermistor connection  |
| <b>shock resistance</b>  | 15 g / 11 ms, from 6 g / 11 ms with potential contact lifting  |
| <b>recovery time after overload trip adjustable</b>  | 60 ... 1 800 s   |
| utilization category according to IEC 60947-4-2  | AC 53a   |
| <b>reference code according to IEC 81346-2</b>   | Q  |
| <b>Substance Prohibitance (Date)</b>   | 02/15/2018   |
| <b>SVHC substance name</b>   | Lead - 7439-92-1<br>Lead monoxide (lead oxide) - 1317-36-8<br>2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one - 71868-10-5<br>Dibutylbis(pentane-2,4-dionato-O,O')tin - 22673-19-4<br>Dicyclohexyl phthalate (DCHP) - 84-61-7<br>Dodecamethylcyclohexasiloxane (D6) - 540-97-6<br>Lead titanium trioxide - 12060-00-3 |
| <b>product function</b>  |  |
| <ul style="list-style-type: none"> <li>• ramp-up (soft starting)</li> </ul>                    | Yes  |
| <ul style="list-style-type: none"> <li>• ramp-down (soft stop)</li> </ul>                      | Yes  |
| <ul style="list-style-type: none"> <li>• breakaway pulse</li> </ul>                            | Yes  |
| <ul style="list-style-type: none"> <li>• adjustable current limitation</li> </ul>              | Yes  |
| <ul style="list-style-type: none"> <li>• creep speed in both directions of rotation</li> </ul> | Yes  |
| <ul style="list-style-type: none"> <li>• pump ramp down</li> </ul>                             | Yes  |
| <ul style="list-style-type: none"> <li>• DC braking</li> </ul>                                 | Yes  |
| <ul style="list-style-type: none"> <li>• motor heating</li> </ul>                              | Yes  |
| <ul style="list-style-type: none"> <li>• slave pointer function</li> </ul>                     | Yes  |
| <ul style="list-style-type: none"> <li>• trace function</li> </ul>                             | Yes  |
| <ul style="list-style-type: none"> <li>• intrinsic device protection</li> </ul>                | Yes  |
| <ul style="list-style-type: none"> <li>• motor overload protection</li> </ul>                  | Yes; Full motor protection (thermistor motor protection and electronic motor overload protection) / When using the motor overload protection according to ATEX, an upstream contactor is required in inside-delta circuit.   |
| <ul style="list-style-type: none"> <li>• evaluation of thermistor motor protection</li> </ul>  | Yes; Type A PTC or Klixon / Thermoclick  |
| <ul style="list-style-type: none"> <li>• inside-delta circuit</li> </ul>                       | Yes  |
| <ul style="list-style-type: none"> <li>• auto-RESET</li> </ul>                                 | Yes  |
| <ul style="list-style-type: none"> <li>• manual RESET</li> </ul>                               | Yes  |
| <ul style="list-style-type: none"> <li>• remote reset</li> </ul>                               | Yes  |
| <ul style="list-style-type: none"> <li>• communication function</li> </ul>                     | Yes  |
| <ul style="list-style-type: none"> <li>• operating measured value display</li> </ul>           | Yes  |
| <ul style="list-style-type: none"> <li>• event list</li> </ul>                                 | Yes  |
| <ul style="list-style-type: none"> <li>• error logbook</li> </ul>                              | Yes  |
| <ul style="list-style-type: none"> <li>• via software parameterizable</li> </ul>               | Yes  |
| <ul style="list-style-type: none"> <li>• via software configurable</li> </ul>                  | Yes  |
| <ul style="list-style-type: none"> <li>• screw terminal</li> </ul>                             | Yes  |
| <ul style="list-style-type: none"> <li>• spring-loaded terminal</li> </ul>                     | No   |
| <ul style="list-style-type: none"> <li>• PROFinergy</li> </ul>                                 | Yes; in connection with the PROFINET Standard and PROFINET High-Feature communication modules  |
| <ul style="list-style-type: none"> <li>• firmware update</li> </ul>                            | Yes  |

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| • <b>removable terminal for control circuit</b>                                     | Yes  |
| • voltage ramp  | Yes  |
| • torque control  | Yes  |
| • combined braking  | Yes  |
| • analog output   | Yes; 4 ... 20 mA (default) / 0 ... 10 V                            |
| • programmable control inputs/outputs   | Yes  |
| • condition monitoring  | Yes  |
| • automatic parameterisation  | Yes  |
| • application wizards   | Yes  |
| • alternative run-down  | Yes  |
| • emergency operation mode  | Yes  |
| • reversing operation   | Yes  |
| • soft starting at heavy starting conditions  | Yes  |
| <b>Power Electronics</b>  |  |
| <b>operational current</b>  |  |
| • at 40 °C rated value  | 250 A  |
| • at 40 °C rated value minimum  | 50 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>minimum load [%]</b>   | 10 %; Relative to set le   |
| <b>power loss [W] for rated value of the current at AC</b>                          |  |
| • at 40 °C after startup  | 75 W   |
| • at 50 °C after startup  | 66 W   |
| • at 60 °C after startup  | 60 W   |
| <b>power loss [W] at AC at current limitation 350 %</b>                             |  |
| • at 40 °C during startup   | 3 806 W  |
| • at 50 °C during startup   | 3 176 W  |
| • at 60 °C during startup   | 2 787 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>   |  |
| • at 50 Hz  | 110 ... 250 V  |
| • at 60 Hz  | 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 %   |
| <b>relative negative tolerance of the control supply voltage at AC at 60 Hz</b>     | -15 %  |

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| <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>inrush current by closing the bypass contacts maximum</b>                    | 0.87 A   |
| inrush current peak at application of control supply voltage maximum            | 43 A   |
| duration of inrush current peak at application of control supply voltage        | 1.6 ms   |
| <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 |

#### Inputs/ Outputs

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|--|---|
| <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   |

#### Installation/ mounting/ dimensions

|   |  |
|---|--|
| <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   |
| required spacing with side-by-side mounting |  |
| • forwards                                  | 10 mm  |
| • backwards                                 | 0 mm   |
| • upwards                                   | 100 mm   |
| • downwards                                 | 75 mm  |
| • at the side                               | 5 mm   |
| <b>weight without packaging</b>             | 10.2 kg  |

#### Connections/ Terminals

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| <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 mm <sup>2</sup> maximum   | 50 m   |
| • with conductor cross-section = 1.5 mm <sup>2</sup> maximum   | 150 m  |
| • with conductor cross-section = 2.5 mm <sup>2</sup> maximum   | 250 m  |
| <b>type of connectable conductor cross-sections</b>            |  |
| • for DIN cable lug for main contacts stranded                 | 2x (50 ... 240 mm <sup>2</sup> )                                     |
| • for DIN cable lug for main contacts finely stranded          | 2x (70 ... 240 mm <sup>2</sup> )                                     |
| <b>type of connectable conductor cross-sections</b>            |  |
| • for control circuit solid                                    | 1x (0.5 ... 4.0 mm <sup>2</sup> ), 2x (0.5 ... 2.5 mm <sup>2</sup> ) |
| • for control circuit finely stranded with core end processing | 1x (0.5 ... 2.5 mm <sup>2</sup> ), 2x (0.5 ... 1.5 mm <sup>2</sup> ) |
| • for AWG cables for control circuit solid                     | 1x (20 ... 12), 2x (20 ... 14)                                       |
| <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>                                       |  |

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| <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>   | <p>14 ... 24 N·m</p> <p>0.8 ... 1.2 N·m</p>   |
| <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>   | <p>124 ... 210 lbf·in</p> <p>7 ... 10.3 lbf·in</p>  |
| <b>Ambient conditions</b>   |   |
| installation altitude at height above sea level maximum   | 5 000 m; Derating as of 1000 m, see catalog   |
| <b>ambient temperature</b> <ul style="list-style-type: none"> <li>• during operation</li> <li>• during storage and transport</li> </ul>   | <p>-25 ... +60 °C; Please observe derating at temperatures of 40 °C or above</p> <p>-40 ... +80 °C</p>  |
| <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>   | <p>3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6</p> <p>1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4</p> <p>2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)</p>  |
| <b>Environmental footprint</b>  |   |
| Siemens Eco Profile (SEP)   | Siemens EcoTech   |
| <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>• PROFINET high-feature</li> <li>• EtherNet/IP</li> <li>• Modbus RTU</li> <li>• Modbus TCP</li> <li>• PROFIBUS</li> </ul>  | <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p>   |
| <b>UL/CSA ratings</b>   |   |
| <b>manufacturer's article number</b> <ul style="list-style-type: none"> <li>• of circuit breaker usable for Standard Faults <ul style="list-style-type: none"> <li>— at 460/480 V according to UL</li> <li>— 60/480 V according to UL</li> <li>— at 460/480 V at inside-delta circuit according to UL</li> <li>— 60/480 V at inside-delta circuit according to UL</li> <li>— at 575/600 V according to UL</li> <li>— 75/600 V at inside-delta circuit according to UL</li> <li>— at 575/600 V at inside-delta circuit according to UL</li> </ul> </li> <li>• of the fuse <ul style="list-style-type: none"> <li>— usable for Standard Faults up to 575/600 V according to UL</li> <li>— usable for High Faults up to 575/600 V according to UL</li> <li>— usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>— usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> </ul> </li> </ul> | <p>Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA</p> <p>Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA</p> <p>Siemens type: 3VA54, max. 600 A; Iq = 18 kA</p> <p>Siemens type: 3VA54, max. 600 A; Iq max = 65 kA</p> <p>Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA</p> <p>Siemens type: 3VA54, max. 600 A; Iq max = 65 kA</p> <p>Siemens type: 3VA54, max. 600 A; Iq = 18 kA</p> <p>Type: Class J / L, max. 800 A; Iq = 18 kA</p> <p>Type: Class J / L, max. 800 A; Iq = 100 kA</p> <p>Type: Class J / L, max. 800 A; Iq = 18 kA</p> <p>Type: Class J / L, max. 800 A; Iq = 100 kA</p> |
| <b>operating power [hp] for 3-phase motors</b> <ul style="list-style-type: none"> <li>• at 200/208 V at 50 °C rated value</li> <li>• at 220/230 V at 50 °C rated value</li> <li>• at 460/480 V at 50 °C rated value</li> <li>• at 200/208 V at inside-delta circuit at 50 °C rated value</li> <li>• at 220/230 V at inside-delta circuit at 50 °C rated value</li> <li>• at 460/480 V at inside-delta circuit at 50 °C rated value</li> </ul>   | <p>60 hp</p> <p>75 hp</p> <p>150 hp</p> <p>125 hp</p> <p>150 hp</p> <p>300 hp</p>   |
| <b>contact rating of auxiliary contacts according to UL</b>   | R300-B300   |
| <b>Electrical Safety</b>  |   |
| <b>protection class IP on the front according to IEC 60529</b>  | IP00; IP20 with cover   |
| <b>touch protection on the front according to IEC 60529</b>   | finger-safe, for vertical contact from the front with cover   |
| <b>ATEX</b>   |   |
| <b>Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX</b>   | SIL1  |
| <b>PFHD with high demand rate according to IEC 61508</b>  | 5E-7 1/h  |

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| relating to ATEX   |  |
| PFDavg with low demand rate according to IEC 61508 relating to ATEX  | 0.008  |
| hardware fault tolerance according to IEC 61508 relating to ATEX   | 0  |
| T1 value for proof test interval or service life according to IEC 61508 relating to ATEX   | 3 a  |
| certificate of suitability <ul style="list-style-type: none"> <li>• ATEX</li> <li>• IECEx</li> <li>• according to ATEX directive 2014/34/EU</li> </ul> | Yes<br>Yes<br>BVS 18 ATEX F 003 X  |
| type of protection according to ATEX directive 2014/34/EU  | 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] |

**Approvals Certificates**

General Product Approval



[Confirmation](#)



|                          |     |                                |                   |
|--------------------------|-----|--------------------------------|-------------------|
| General Product Approval | EMV | For use in hazardous locations | Test Certificates |
|--------------------------|-----|--------------------------------|-------------------|



[KC](#)



[Type Test Certificates/Test Report](#)

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



[Confirmation](#)



**Environment**



[Environmental Confirmations](#)

**Further information**

Information on the packaging

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

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=3RW5544-6HA14>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5544-6HA14>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RW5544-6HA14>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RW5544-6HA14&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5544-6HA14&lang=en)

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RW5544-6HA14/char>

Characteristic: Installation altitude

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5544-6HA14&objecttype=14&gridview=view1>

Simulation Tool for Soft Starters (STS)

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







