

Siemens  
EcoTech



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



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|--|--|
| <b>product brand name</b>                    | SIRIUS   |
| <b>product category</b>                      | Hybrid switching devices   |
| <b>product designation</b>                   | Failsafe soft starters   |
| <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="#">3RV2032-4EA10; Type of coordination 1, Iq = 65 kA, CLASS 10</a></li> <li>• of circuit breaker usable at 500 V <a href="#">3RV2032-4EA10; Type of coordination 1, Iq = 15 kA, CLASS 10</a></li> <li>• of circuit breaker usable at 400 V at inside-delta circuit <a href="#">3RV2032-4VA10; Type of coordination 1, Iq = 65 kA, CLASS 10</a></li> <li>• of circuit breaker usable at 500 V at inside-delta circuit <a href="#">3RV2032-4VA10; Type of coordination 1, Iq = 15 kA, CLASS 10</a></li> <li>• of the gG fuse usable up to 690 V <a href="#">3NA3822-6; Type of coordination 1, Iq = 65 kA</a></li> <li>• of the gG fuse usable at inside-delta circuit up to 500 V <a href="#">3NA3822-6; Type of coordination 1, Iq = 65 kA</a></li> <li>• of full range R fuse link for semiconductor protection usable up to 690 V <a href="#">3NE1817-0; Type of coordination 2, Iq = 65 kA</a></li> <li>• of back-up R fuse link for semiconductor protection usable up to 690 V <a href="#">3NE8021-1; Type of coordination 2, Iq = 65 kA</a></li> <li>• of the redundant contactor for applications &gt; SIL 1 according to EN 62061 <a href="#">3RT2035</a></li> <li>• of the redundant contactor for applications &gt; SIL 1 at inside-delta circuit according to EN 62061 <a href="#">3RT2035</a></li> <li>• of the redundant contactor for applications &gt; SIL 1 according to EN ISO 13849-1 <a href="#">3RT2036</a></li> <li>• of the redundant contactor for applications &gt; SIL 1 at inside-delta circuit according to EN ISO 13849-1 <a href="#">3RT2036</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 %  |

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|--|--|
| <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>                            |  |
| • 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>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  |
| <b>insulation voltage rated value</b>                        | 480 V  |
| <b>degree of pollution</b>                                   | 3, acc. to IEC 60947-4-2   |
| <b>impulse voltage rated value</b>                           | 6 kV   |
| <b>blocking voltage of the thyristor maximum</b>             | 1 600 V  |
| <b>service factor</b>  | 1.15   |
| <b>surge voltage resistance rated value</b>                  | 6 kV   |
| <b>maximum permissible voltage for protective separation</b> |  |
| • between main and auxiliary circuit                         | 480 V; does not apply for thermistor connection  |
| <b>shock resistance</b>                                      | 15 g / 11 ms, from 6 g / 11 ms with potential contact lifting  |
| <b>vibration resistance</b>                                  | 15 mm up to 6 Hz; 2 g up to 500 Hz   |
| <b>recovery time after overload trip adjustable</b>          | 60 ... 1 800 s   |
| utilization category according to IEC 60947-4-2              | AC 53a   |
| <b>reference code according to IEC 81346-2</b>               | Q  |
| <b>Substance Prohibitance (Date)</b>                         | 11/22/2019   |
| <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>Diboron trioxide - 1303-86-2<br>Lead titanium trioxide - 12060-00-3 |
| <b>Weight</b>  | 3.204 kg   |
| <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  |
| • min/max pointer  | Yes  |
| • trace function   | Yes  |
| • intrinsic device protection                                | Yes  |
| • motor overload protection                                  | 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.   |
| • evaluation of thermistor motor protection                  | Yes; Type A PTC or Klixon / Thermoclick  |
| • inside-delta circuit                                       | Yes  |
| • 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                                | No  |
| • spring-loaded terminal                        | Yes   |
| • <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   |
| • 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   |

### Power Electronics

|   |  |
|---|--|
| <b>operational current</b>  |  |
| • at 40 °C rated value  | 25 A   |
| • at 40 °C rated value minimum  | 5 A  |
| • at 50 °C rated value  | 22.3 A   |
| • at 60 °C rated value  | 19.6 A   |
| <b>operational current at inside-delta circuit</b>                                  |  |
| • at 40 °C rated value  | 43.3 A   |
| • at 50 °C rated value  | 39 A   |
| • at 60 °C rated value  | 33.9 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   | 5.5 kW   |
| • at 230 V at inside-delta circuit at 40 °C rated value                             | 11 kW  |
| • at 400 V at 40 °C rated value   | 11 kW  |
| • at 400 V at inside-delta circuit at 40 °C rated value                             | 18.5 kW  |
| <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  | 8 W  |
| • at 50 °C after startup  | 7 W  |
| • at 60 °C after startup  | 6 W  |
| <b>power loss [W] at AC at current limitation 350 %</b>                             |  |
| • at 40 °C during startup   | 364 W  |
| • at 50 °C during startup   | 309 W  |
| • at 60 °C during startup   | 262 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 %  |
| <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>                                  | 165 mA   |
| <b>inrush current by closing the bypass contacts maximum</b>                            | 0.2 A  |
| inrush current peak at application of control supply voltage maximum                    | 43 A   |
| duration of inrush current peak at application of control supply voltage                | 1.6 ms   |
| <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>   | 4  |
| • with fail-safe  | 1  |
| • parameterizable   | 4  |
| • <b>number of digital outputs</b>  | 3  |
| • Number of digital outputs with fail-safe  | 1  |
| • number of digital outputs parameterizable   | 2  |
| • number of digital outputs not parameterizable   | 1  |
| <b>digital output version</b>   | 2 normally-open contacts (NO) / 1 normally-closed contact (NC) / 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>Response times</b>   |  |
| OFF-delay time with safety-related request when switched off via control inputs maximum | 100 ms   |
| <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>   | 275 mm   |
| <b>width</b>  | 170 mm   |
| <b>depth</b>  | 152 mm   |
| required spacing with side-by-side mounting   |  |
| • forwards  | 10 mm  |
| • backwards   | 0 mm   |
| • upwards   | 100 mm   |
| • downwards   | 75 mm  |
| • at the side   | 5 mm   |
| <b>weight without packaging</b>   | 2.3 kg   |
| <b>Connections/ Terminals</b>   |  |
| <b>type of electrical connection</b>  |  |
| • for main current circuit  | screw-type terminals   |
| • for control circuit   | spring-loaded terminals  |
| <b>wire length for thermistor connection</b>  |  |
| • with conductor cross-section = 0.5 mm <sup>2</sup> maximum                            | 50 m   |

|   |   |
|---|---|
| <ul style="list-style-type: none"> <li>with conductor cross-section = 1.5 mm<sup>2</sup> maximum</li> <li>with conductor cross-section = 2.5 mm<sup>2</sup> maximum</li> </ul>  | 150 m<br>250 m  |
| <b>type of connectable conductor cross-sections</b> <ul style="list-style-type: none"> <li>for main contacts <ul style="list-style-type: none"> <li>— solid</li> <li>— finely stranded with core end processing</li> </ul> </li> <li>for AWG cables for main current circuit solid</li> </ul>   | 2x (1.0 ... 2.5 mm <sup>2</sup> ), 2x (2.5 ... 10 mm <sup>2</sup> )<br>2x (1.0 ... 2.5 mm <sup>2</sup> ), 2x (2.5 ... 6.0 mm <sup>2</sup> )<br>2x (16 ... 12), 2x (14 ... 8)  |
| <b>type of connectable conductor cross-sections</b> <ul style="list-style-type: none"> <li>for control circuit solid</li> <li>for control circuit finely stranded with core end processing</li> <li>for AWG cables for control circuit solid</li> <li>for AWG cables for control circuit finely stranded with core end processing</li> </ul>  | 2x (0.25 ... 1.5 mm <sup>2</sup> )<br>2x (0.25 ... 1.5 mm <sup>2</sup> )<br>2x (24 ... 16)<br>2x (24 ... 16)  |
| <b>wire length</b> <ul style="list-style-type: none"> <li>between soft starter and motor maximum</li> <li>at the digital inputs at DC maximum</li> </ul>  | 800 m<br>1 000 m  |
| <b>tightening torque</b> <ul style="list-style-type: none"> <li>for main contacts with screw-type terminals</li> <li>for auxiliary and control contacts with screw-type terminals</li> </ul>  | 2 ... 2.5 N·m<br>0.8 ... 1.2 N·m  |
| <b>tightening torque [lbf·in]</b> <ul style="list-style-type: none"> <li>for main contacts with screw-type terminals</li> <li>for auxiliary and control contacts with screw-type terminals</li> </ul>   | 18 ... 22 lbf·in<br>7 ... 10.3 lbf·in   |
| <b>Ambient conditions</b>   |   |
| installation altitude at height above sea level maximum   | 2 000 m; Derating as of 1000 m, see catalog   |
| <b>ambient temperature</b> <ul style="list-style-type: none"> <li>during operation</li> <li>during storage and transport</li> </ul>   | -25 ... +60 °C; Please observe derating at temperatures of 40 °C or above<br>-40 ... +80 °C   |
| <b>environmental category</b> <ul style="list-style-type: none"> <li>during operation according to IEC 60721</li> <li>during storage according to IEC 60721</li> <li>during transport according to IEC 60721</li> </ul>   | 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6<br>1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4<br>2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)   |
| <b>Environmental footprint</b>  |   |
| Siemens Eco Profile (SEP)   | Siemens EcoTech   |
| <b>EMC emitted interference</b>   | acc. to IEC 60947-4-2: Class A, Class B on request  |
| <b>Communication/ Protocol</b>  |   |
| <b>communication module is supported</b> <ul style="list-style-type: none"> <li>PROFINET standard</li> <li>PROFINET high-feature</li> <li>EtherNet/IP</li> <li>Modbus RTU</li> <li>Modbus TCP</li> <li>PROFIBUS</li> </ul>  | Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes  |
| <b>UL/CSA ratings</b>   |   |
| <b>manufacturer's article number</b> <ul style="list-style-type: none"> <li> <b>of circuit breaker usable for Standard Faults</b> <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> <b>of the fuse</b> <ul style="list-style-type: none"> <li>— usable for Standard Faults up to 575/600 V according to UL</li> <li>— usable for High Faults up to 575/600 V according to UL</li> <li>— usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL</li> </ul> </li> </ul> | Siemens type: 3RV2742, max. 70 A or 3VA51, max. 80 A; I <sub>q</sub> = 5 kA<br>Siemens type: 3RV2742, max.40 A or 3VA51, max. 60 A; I <sub>q</sub> max = 65 kA<br>Siemens type: 3RV2742, max. 70 A or 3VA51, max. 80 A; I <sub>q</sub> = 5 kA<br>Siemens type: 3VA51, max. 60 A; I <sub>q</sub> max = 65 kA<br>Siemens type: 3RV2742, max. 70 A or 3VA51, max. 80 A; I <sub>q</sub> = 5 kA<br>Siemens type: 3VA51, max. 60 A; I <sub>q</sub> max = 65 kA<br>Siemens type: 3RV2742, max. 70 A or 3VA51, max. 80 A; I <sub>q</sub> = 5 kA<br><br>Type: Class RK5 / K5, max. 100 A; I <sub>q</sub> = 5 kA<br><br>Type: Class J / L, max. 100 A; I <sub>q</sub> = 100 kA<br><br>Type: Class RK5 / K5, max. 100 A; I <sub>q</sub> = 5 kA |

|   |  |
|---|--|
| — usable for High Faults at inside-delta circuit up to 575/600 V according to UL                | Type: Class J / L, max. 100 A; Iq = 100 kA   |
| <b>operating power [hp] for 3-phase motors</b>  |  |
| • at 200/208 V at 50 °C rated value   | 5 hp   |
| • at 220/230 V at 50 °C rated value   | 7.5 hp   |
| • at 460/480 V at 50 °C rated value   | 15 hp  |
| • at 200/208 V at inside-delta circuit at 50 °C rated value                                     | 10 hp  |
| • at 220/230 V at inside-delta circuit at 50 °C rated value                                     | 10 hp  |
| • at 460/480 V at inside-delta circuit at 50 °C rated value                                     | 25 hp  |
| <b>contact rating of auxiliary contacts according to UL</b>                                     | R300-B300  |
| <b>Safety related data</b>  |  |
| product function suitable for safety function   | Yes  |
| <b>suitability for use</b>  |  |
| • safety-related switching on   | No   |
| • safety-related switching OFF  | Yes  |
| <b>safe state</b>   | Open load circuit  |
| <b>function test interval maximum</b>   | 1 a  |
| <b>diagnostics test interval by internal test function maximum</b>                              | 1 000 s  |
| <b>stop category according to IEC 60204-1</b>   | 0  |
| <b>B10d value</b>   | 1 588 000  |
| <b>average diagnostic coverage level (DCavg)</b>  | 90 %   |
| <b>MTTFd</b>  | 39 a   |
| <b>IEC 62061</b>  |  |
| <b>Safety Integrity Level (SIL) according to IEC 62061</b>                                      | 1  |
| PFHD with high demand rate according to IEC 62061   | 1E-6 1/h   |
| <b>ISO 13849</b>  |  |
| <b>performance level (PL) according to ISO 13849-1</b>  | c  |
| <b>IEC 61508</b>  |  |
| <b>Safety Integrity Level (SIL)</b>   |  |
| • according to IEC 61508  | SIL 1  |
| <b>safety device type according to IEC 61508-2</b>  | Type B   |
| <b>PFHD with high demand rate according to IEC 61508</b>  | 1E-6 1/h   |
| PFDavg with low demand rate according to IEC 61508  | 0.09   |
| <b>Safe failure fraction (SFF)</b>  | 60 %   |
| hardware fault tolerance according to IEC 61508   | 0  |
| T1 value of service life according to IEC 61508   | 20 a   |
| <b>Electrical Safety</b>  |  |
| <b>protection class IP on the front according to IEC 60529</b>                                  | IP20   |
| <b>touch protection on the front according to IEC 60529</b>                                     | finger-safe, for vertical contact from the front   |
| <b>ATEX</b>   |  |
| <b>Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX</b>                     | SIL1   |
| <b>PFHD with high demand rate according to IEC 61508 relating to ATEX</b>                       | 5E-7 1/h   |
| <b>PFDavg with low demand rate according to IEC 61508 relating to ATEX</b>                      | 0.008  |
| <b>hardware fault tolerance according to IEC 61508 relating to ATEX</b>                         | 0  |
| <b>T1 value for proof test interval or service life according to IEC 61508 relating to ATEX</b> | 3 a  |
| <b>certificate of suitability</b>   |  |
| • ATEX  | Yes  |
| • IECEx   | Yes  |
| • according to ATEX directive 2014/34/EU  | BVS 18 ATEX F 003 X  |
| <b>type of protection according to ATEX directive 2014/34/EU</b>                                | II (2)G [Ex eb Gb] [Ex db Gb] [Ex pxb Gb], II (2)D [Ex tb Db] [Ex pxb Db], I (M2) [Ex db Mb] |
| <b>Approvals Certificates</b>   |  |
| <b>General Product Approval</b>   |  |



[Confirmation](#)



EMV

For use in hazardous locations

Functional Safety

Test Certificates



[KC](#)



[Type Examination Certificate](#)

[Type Test Certificates/Test Report](#)

Marine / Shipping

other

Environment



[Confirmation](#)



Environment

Siemens EcoTech



[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=3RW5515-3HF14>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5515-3HF14>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RW5515-3HF14>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RW5515-3HF14&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5515-3HF14&lang=en)

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RW5515-3HF14/char>

Characteristic: Installation altitude

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5515-3HF14&objecttype=14&gridview=view1>

Simulation Tool for Soft Starters (STS)

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







