## SIEMENS

## Data sheet

## 3RW5226-1TC04



SIRIUS soft starter 200-480 V 77 A, 24 V AC/DC Screw terminals Thermistor input

| product brand name  | SIRIUS  |
|---|---|
| product category  | Hybrid switching devices  |
| product designation   | Soft starter  |
| product type designation  | 3RW52   |
| manufacturer's article number   |   |
| <ul> <li>of standard HMI module usable</li> </ul>   | <u>3RW5980-0HS00</u>  |
| <ul> <li>of high feature HMI module usable</li> </ul>   | <u>3RW5980-0HF00</u>  |
| <ul> <li>of communication module PROFINET standard<br/>usable</li> </ul>                          | <u>3RW5980-0CS00</u>  |
| <ul> <li>of communication module PROFIBUS usable</li> </ul>                                       | <u>3RW5980-0CP00</u>  |
| <ul> <li>of communication module Modbus TCP usable</li> </ul>                                     | <u>3RW5980-0CT00</u>  |
| <ul> <li>of communication module Modbus RTU usable</li> </ul>                                     | <u>3RW5980-0CR00</u>  |
| <ul> <li>of communication module Ethernet/IP</li> </ul>   | <u>3RW5980-0CE00</u>  |
| <ul> <li>of circuit breaker usable at 400 V</li> </ul>  | <u>3VA2110-7MN32-0AA0;</u> Type of coordination 1, Iq = 65 kA, CLASS 10 |
| <ul> <li>of circuit breaker usable at 500 V</li> </ul>  | <u>3VA2110-7MN32-0AA0;</u> Type of coordination 1, Iq = 20 kA, CLASS 10 |
| <ul> <li>of circuit breaker usable at 400 V at inside-delta<br/>circuit</li> </ul>                | <u>3VA2216-7MN32-0AA0;</u> Type of coordination 1, Iq = 65 kA, CLASS 10 |
| <ul> <li>of circuit breaker usable at 500 V at inside-delta<br/>circuit</li> </ul>                | <u>3VA2216-7MN32-0AA0;</u> Type of coordination 1, Iq = 20 kA, CLASS 10 |
| <ul> <li>of the gG fuse usable up to 690 V</li> </ul>   | <u>3NA3132-6;</u> Type of coordination 1, Iq = 65 kA                    |
| <ul> <li>of the gG fuse usable at inside-delta circuit up to<br/>500 V</li> </ul>                 | <u>3NA3132-6;</u> Type of coordination 1, Iq = 65 kA                    |
| <ul> <li>of full range R fuse link for semiconductor protection<br/>usable up to 690 V</li> </ul> | <u>3NE1224-0;</u> Type of coordination 2, Iq = 65 kA                    |
| <ul> <li>of back-up R fuse link for semiconductor protection<br/>usable up to 690 V</li> </ul>    | <u>3NE8024-1;</u> Type of coordination 2, Iq = 65 kA                    |
| General technical data  |   |
| starting voltage [%]  | 30 100 %  |
| stopping voltage [%]  | 50 %; non-adjustable  |
| start-up ramp time of soft starter  | 0 20 s  |
| current limiting value [%] adjustable   | 130 700 %   |
| certificate of suitability  |   |
| CE marking  | Yes   |
| <ul> <li>UL approval</li> </ul>   | Yes   |
| <ul> <li>CSA approval</li> </ul>  | Yes   |
| product component   |   |
| HMI-High Feature  | No  |
| <ul> <li>is supported HMI-Standard</li> </ul>   | Yes   |
| <ul> <li>is supported HMI-High Feature</li> </ul>   | Yes   |
| product feature integrated bypass contact system  | Yes   |
| number of controlled phases   | 3   |
| trip class  | CLASS 10A (default) / 10E / 20E; acc. to IEC 60947-4-2                  |
| buffering time in the event of power failure  |   |

| for main current circuit  | 100 ms   |
|---|--|
| for control circuit   | 100 ms   |
| insulation voltage rated value  | 600 V  |
| degree of pollution   | 3, acc. to IEC 60947-4-2   |
| impulse voltage rated value   | 6 kV   |
| blocking voltage of the thyristor maximum   | 1 400 V  |
| service factor  | 1  |
| surge voltage resistance rated value  | 6 kV   |
| maximum permissible voltage for safe isolation  |  |
| between main and auxiliary circuit  | 600 V  |
| shock resistance  | 15 g / 11 ms, from 12 g / 11 ms with potential contact lifting         |
| vibration resistance  | 15 mm to 6 Hz; 2g to 500 Hz  |
| utilization category according to IEC 60947-4-2   | AC 53a   |
| reference code according to IEC 81346-2   | Q  |
| Substance Prohibitance (Date)   | 02/15/2018   |
| product function  |  |
| • ramp-up (soft starting)   | Yes  |
| • ramp-down (soft stop)   | Yes  |
| Soft Torque   | Yes  |
| adjustable current limitation   | Yes  |
| pump ramp down  | Yes  |
| intrinsic device protection   | Yes  |
| <ul> <li>motor overload protection</li> </ul>   | Yes; Full motor protection (thermistor motor protection and electronic |
| ·   | motor overload protection)   |
| <ul> <li>evaluation of thermistor motor protection</li> </ul>                                 | Yes; Type A PTC or Klixon / Thermoclick                                |
| <ul> <li>inside-delta circuit</li> </ul>  | Yes  |
| auto-RESET  | Yes  |
| <ul> <li>manual RESET</li> </ul>  | Yes  |
| <ul> <li>remote reset</li> </ul>  | Yes; By turning off the control supply voltage                         |
| <ul> <li>communication function</li> </ul>  | Yes  |
| <ul> <li>operating measured value display</li> </ul>  | Yes; Only in conjunction with special accessories                      |
| <ul> <li>error logbook</li> </ul>   | Yes; Only in conjunction with special accessories                      |
| <ul> <li>via software parameterizable</li> </ul>  | No   |
| <ul> <li>via software configurable</li> </ul>   | Yes  |
| PROFlenergy   | Yes; in connection with the PROFINET Standard communication            |
| - firmurare un dete   | module   |
| firmware update   | Yes  |
| removable terminal for control circuit  | Yes  |
| <ul> <li>torque control</li> <li>analog output</li> </ul>                                     | No   |
| 5 1   | NO   |
| Power Electronics   |  |
| operational current   | 77 A   |
| • at 40 °C rated value  | 77 A   |
| • at 50 °C rated value  | 68 A   |
| <ul> <li>at 60 °C rated value</li> <li>operational current at inside-delta circuit</li> </ul> | 62 A   |
| at 40 °C rated value  | 133 A  |
| at 50 °C rated value  | 135 A<br>118 A   |
| at 50 °C rated value  | 107 A  |
| operating voltage   |  |
| rated value   | 200 480 V  |
| at inside-delta circuit rated value   | 200 480 V  |
| relative negative tolerance of the operating voltage  | -15 %  |
| relative positive tolerance of the operating voltage  | 10 %   |
| relative positive tolerance of the operating voltage at                                       | -15 %  |
| inside-delta circuit  |  |
| relative positive tolerance of the operating voltage at inside-delta circuit                  | 10 %   |
| operating power for 3-phase motors  |  |
| <ul> <li>at 230 V at 40 °C rated value</li> </ul>   | 22 kW  |
| <ul> <li>at 230 V at inside-delta circuit at 40 °C rated value</li> </ul>                     | 37 kW  |
| <ul> <li>at 400 V at 40 °C rated value</li> </ul>   | 37 kW  |
| <ul> <li>at 400 V at inside-delta circuit at 40 °C rated value</li> </ul>                     | 75 kW  |
| Operating frequency 1 rated value   | 50 Hz  |
|   |  |

| Operating frequency 2 rated value   | 60 Hz  |
|---|--|
| relative negative tolerance of the operating frequency  | -10 %  |
| relative positive tolerance of the operating frequency  | 10 %   |
| adjustable motor current  |  |
| • at rotary coding switch on switch position 1  | 32 A   |
| <ul> <li>at rotary coding switch on switch position 2</li> </ul>  | 35 A   |
| <ul> <li>at rotary coding switch on switch position 3</li> </ul>  | 38 A   |
| <ul> <li>at rotary coding switch on switch position 4</li> </ul>  | 41 A   |
| <ul> <li>at rotary coding switch on switch position 5</li> </ul>  | 44 A   |
| <ul> <li>at rotary coding switch on switch position 6</li> </ul>  | 47 A   |
| <ul> <li>at rotary coding switch on switch position 7</li> </ul>  | 50 A   |
| <ul> <li>at rotary coding switch on switch position 8</li> </ul>  | 53 A   |
| <ul> <li>at rotary coding switch on switch position 9</li> </ul>  | 56 A   |
| <ul> <li>at rotary coding switch on switch position 10</li> </ul>   | 59 A   |
| <ul> <li>at rotary coding switch on switch position 11</li> </ul>   | 62 A   |
| <ul> <li>at rotary coding switch on switch position 12</li> </ul>   | 65 A   |
| <ul> <li>at rotary coding switch on switch position 13</li> </ul>   | 68 A   |
| <ul> <li>at rotary coding switch on switch position 14</li> </ul>   | 71 A   |
| at rotary coding switch on switch position 15   | 74 A   |
| <ul> <li>at rotary coding switch on switch position 16</li> </ul>   | 77 A   |
| • minimum   | 32 A   |
| adjustable motor current  |  |
| • for inside-delta circuit at rotary coding switch on switch position 1   | 55.4 A   |
| for inside-delta circuit at rotary coding switch on<br>switch position 2  | 60.6 A   |
| for inside-delta circuit at rotary coding switch on<br>switch position 3  | 65.8 A   |
| • for inside-delta circuit at rotary coding switch on switch position 4   | 71 A   |
| • for inside-delta circuit at rotary coding switch on switch position 5   | 76.2 A   |
| for inside-delta circuit at rotary coding switch on<br>switch position 6  | 81.4 A   |
| <ul> <li>for inside-delta circuit at rotary coding switch on<br/>switch position 7</li> </ul>   | 86.6 A   |
| <ul> <li>for inside-delta circuit at rotary coding switch on<br/>switch position 8</li> </ul>   | 91.8 A   |
| <ul> <li>for inside-delta circuit at rotary coding switch on<br/>switch position 9</li> </ul>   | 97 A   |
| <ul> <li>for inside-delta circuit at rotary coding switch on<br/>switch position 10</li> </ul>  | 102 A  |
| <ul> <li>for inside-delta circuit at rotary coding switch on<br/>switch position 11</li> </ul>  | 107 A  |
| • for inside-delta circuit at rotary coding switch on switch position 12  | 113 A  |
| <ul> <li>for inside-delta circuit at rotary coding switch on<br/>switch position 13</li> </ul>  | 118 A  |
| <ul> <li>for inside-delta circuit at rotary coding switch on<br/>switch position 14</li> </ul>  | 123 A  |
| <ul> <li>for inside-delta circuit at rotary coding switch on<br/>switch position 15</li> <li>for inside delta circuit at rotary coding switch on</li> </ul> | 128 A  |
| <ul> <li>for inside-delta circuit at rotary coding switch on<br/>switch position 16</li> <li>at inside delta circuit minimum</li> </ul>                     | 133 A  |
| <ul> <li>at inside-delta circuit minimum</li> <li>minimum load [%]</li> </ul>   | 55.4 A<br>15 %; Relative to smallest settable le |
| power loss [W] for rated value of the current at AC   | יט אי, וזכומנויב נט אוזמוובא אבונמטוב וב         |
| • at 40 °C after startup  | 35 W   |
| • at 50 °C after startup  | 32 W   |
| • at 60 °C after startup  | 31 W   |
| power loss [W] at AC at current limitation 350 %  |  |
| • at 40 °C during startup   | 1 107 W  |
| • at 50 °C during startup   | 933 W  |
| • at 60 °C during startup   | 826 W  |
| Control circuit/ Control  |  |
| type of voltage of the control supply voltage   | AC/DC  |
| control supply voltage at AC  |  |
| control supply voltage at AO  |  |

| <ul> <li>at 50 Hz rated value</li> </ul>   |   |
|--|---|
|  | 24 V  |
| <ul> <li>at 60 Hz rated value</li> </ul>   | 24 V  |
| relative negative tolerance of the control supply  | -20 %   |
| voltage at AC at 50 Hz   |   |
| relative positive tolerance of the control supply  | 20 %  |
| voltage at AC at 50 Hz<br>relative negative tolerance of the control supply  | -20 %   |
| voltage at AC at 60 Hz<br>relative positive tolerance of the control supply  | 20 %  |
| voltage at AC at 60 Hz   | <b>FO O O O O</b>   |
| control supply voltage frequency   | 50 60 Hz  |
| relative negative tolerance of the control supply voltage frequency  | -10 %   |
| relative positive tolerance of the control supply  | 10 %  |
| voltage frequency  |   |
| control supply voltage   | 24.1/   |
| • at DC rated value  | 24 V  |
| relative negative tolerance of the control supply<br>voltage at DC   | -20 %   |
| relative positive tolerance of the control supply  | 20 %  |
| voltage at DC  |   |
| control supply current in standby mode rated value   | 160 mA  |
| holding current in bypass operation rated value  | 380 mA  |
| inrush current peak at application of control supply voltage   | 3.3 A   |
| maximum<br>duration of inrush current peak at application of control<br>supply voltage   | 12.1 ms   |
| design of the overvoltage protection   | Varistor  |
| design of short-circuit protection for control circuit   | 4 A gG fuse (Icu=1 kA), 6 A guick-acting fuse (Icu=1 kA), C1 miniature  |
|  | circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is   |
|  | not part of scope of supply   |
| Inputs/ Outputs  |   |
| number of digital inputs   | 1   |
| number of digital outputs  | 3   |
| <ul> <li>not parameterizable</li> </ul>  | 2   |
| digital output version   | 2 normally-open contacts (NO) / 1 changeover contact (CO)   |
| number of analog outputs   | 0   |
| switching capacity current of the relay outputs  |   |
| <ul> <li>at AC-15 at 250 V rated value</li> </ul>  | 3 A   |
| at DC-13 at 24 V rated value   | 1 A   |
| Installation/ mounting/ dimensions   |   |
| mounting position  | with vertical mounting surface +/-90° rotatable, with vertical mounting   |
|  |   |
|  | surface +/- 22.5° tiltable to the front and back  |
| fastening method   | screw fixing  |
| height   | screw fixing<br>306 mm  |
| height width   | screw fixing<br>306 mm<br>185 mm  |
| height<br>width<br>depth   | screw fixing<br>306 mm  |
| height<br>width<br>depth<br>required spacing with side-by-side mounting  | screw fixing<br>306 mm<br>185 mm<br>203 mm  |
| height<br>width<br>depth<br>required spacing with side-by-side mounting<br>• forwards  | screw fixing<br>306 mm<br>185 mm<br>203 mm  |
| height<br>width<br>depth<br>required spacing with side-by-side mounting<br>• forwards<br>• backwards   | screw fixing<br>306 mm<br>185 mm<br>203 mm<br>10 mm<br>0 mm   |
| height<br>width<br>depth<br>required spacing with side-by-side mounting<br>• forwards<br>• backwards<br>• upwards  | screw fixing<br>306 mm<br>185 mm<br>203 mm<br>10 mm<br>0 mm<br>100 mm   |
| height<br>width<br>depth<br>required spacing with side-by-side mounting<br>• forwards<br>• backwards<br>• upwards<br>• downwards   | screw fixing<br>306 mm<br>185 mm<br>203 mm<br>10 mm<br>0 mm<br>100 mm<br>75 mm  |
| height<br>width<br>depth<br>required spacing with side-by-side mounting<br>• forwards<br>• backwards<br>• upwards<br>• downwards<br>• at the side  | screw fixing<br>306 mm<br>185 mm<br>203 mm<br>10 mm<br>0 mm<br>100 mm<br>75 mm<br>5 mm  |
| height<br>width<br>depth<br>required spacing with side-by-side mounting<br>• forwards<br>• backwards<br>• upwards<br>• downwards<br>• at the side<br>weight without packaging  | screw fixing<br>306 mm<br>185 mm<br>203 mm<br>10 mm<br>0 mm<br>100 mm<br>75 mm  |
| height<br>width<br>depth<br>required spacing with side-by-side mounting<br>• forwards<br>• backwards<br>• upwards<br>• downwards<br>• at the side<br>weight without packaging<br>Connections/ Terminals  | screw fixing<br>306 mm<br>185 mm<br>203 mm<br>10 mm<br>0 mm<br>100 mm<br>75 mm<br>5 mm  |
| height<br>width<br>depth<br>required spacing with side-by-side mounting<br>• forwards<br>• backwards<br>• upwards<br>• downwards<br>• at the side<br>weight without packaging<br>Connections/ Terminals<br>type of electrical connection   | screw fixing<br>306 mm<br>185 mm<br>203 mm<br>10 mm<br>0 mm<br>100 mm<br>75 mm<br>5 mm<br>5 mm<br>5.6 kg  |
| height<br>width<br>depth<br>required spacing with side-by-side mounting<br>• forwards<br>• backwards<br>• backwards<br>• downwards<br>• at the side<br>weight without packaging<br>Connections/ Terminals<br>type of electrical connection<br>• for main current circuit   | screw fixing<br>306 mm<br>185 mm<br>203 mm<br>10 mm<br>0 mm<br>100 mm<br>75 mm<br>5 mm<br>5.6 kg<br>box terminal  |
| height<br>width<br>depth<br>required spacing with side-by-side mounting<br>• forwards<br>• backwards<br>• backwards<br>• downwards<br>• downwards<br>• at the side<br>weight without packaging<br>Connections/ Terminals<br>type of electrical connection<br>• for main current circuit<br>• for control circuit   | screw fixing<br>306 mm<br>185 mm<br>203 mm<br>10 mm<br>0 mm<br>100 mm<br>75 mm<br>5 mm<br>5.6 kg<br>box terminal<br>screw-type terminals                                    |
| height<br>width<br>depth<br>required spacing with side-by-side mounting<br>• forwards<br>• backwards<br>• backwards<br>• downwards<br>• at the side<br>weight without packaging<br>Connections/ Terminals<br>type of electrical connection<br>• for main current circuit<br>• for control circuit<br>width of connection bar maximum   | screw fixing<br>306 mm<br>185 mm<br>203 mm<br>10 mm<br>0 mm<br>100 mm<br>75 mm<br>5 mm<br>5.6 kg<br>box terminal  |
| height<br>width<br>depth<br>required spacing with side-by-side mounting<br>• forwards<br>• backwards<br>• backwards<br>• downwards<br>• at the side<br>weight without packaging<br>Connections/ Terminals<br>type of electrical connection<br>• for main current circuit<br>• for control circuit<br>width of connection bar maximum<br>wire length for thermistor connection  | screw fixing<br>306 mm<br>185 mm<br>203 mm<br>10 mm<br>0 mm<br>100 mm<br>75 mm<br>5 mm<br>5.6 kg<br>box terminal<br>screw-type terminals<br>25 mm                           |
| height<br>width<br>depth<br>required spacing with side-by-side mounting<br>• forwards<br>• backwards<br>• backwards<br>• downwards<br>• at the side<br>weight without packaging<br>Connections/ Terminals<br>type of electrical connection<br>• for main current circuit<br>• for control circuit<br>width of connection bar maximum<br>wire length for thermistor connection<br>• with conductor cross-section = 0.5 mm <sup>2</sup> maximum  | screw fixing<br>306 mm<br>185 mm<br>203 mm<br>10 mm<br>0 mm<br>100 mm<br>75 mm<br>5 mm<br>5.6 kg<br>box terminal<br>screw-type terminals<br>25 mm<br>50 m                   |
| height<br>width<br>depth<br>required spacing with side-by-side mounting<br>• forwards<br>• backwards<br>• upwards<br>• downwards<br>• at the side<br>weight without packaging<br>Connections/ Terminals<br>type of electrical connection<br>• for main current circuit<br>• for control circuit<br>width of connection bar maximum<br>wire length for thermistor connection<br>• with conductor cross-section = 0.5 mm <sup>2</sup> maximum<br>• with conductor cross-section = 1.5 mm <sup>2</sup> maximum  | screw fixing<br>306 mm<br>185 mm<br>203 mm<br>10 mm<br>0 mm<br>100 mm<br>75 mm<br>5 mm<br>5.6 kg<br>box terminal<br>screw-type terminals<br>25 mm<br>50 m<br>150 m          |
| height<br>width<br>depth<br>required spacing with side-by-side mounting<br>• forwards<br>• backwards<br>• upwards<br>• downwards<br>• at the side<br>weight without packaging<br>Connections/ Terminals<br>type of electrical connection<br>• for main current circuit<br>• for control circuit<br>width of connection bar maximum<br>wire length for thermistor connection<br>• with conductor cross-section = 0.5 mm <sup>2</sup> maximum<br>• with conductor cross-section = 1.5 mm <sup>2</sup> maximum<br>• with conductor cross-section = 2.5 mm <sup>2</sup> maximum  | screw fixing<br>306 mm<br>185 mm<br>203 mm<br>10 mm<br>0 mm<br>100 mm<br>75 mm<br>5 mm<br>5.6 kg<br>box terminal<br>screw-type terminals<br>25 mm<br>50 m                   |
| height<br>width<br>depth<br>required spacing with side-by-side mounting<br>• forwards<br>• backwards<br>• backwards<br>• downwards<br>• at with side<br>weight without packaging<br>Connections/ Terminals<br>type of electrical connection<br>• for main current circuit<br>• for control circuit<br>width of connection bar maximum<br>wire length for thermistor connection<br>• with conductor cross-section = 0.5 mm <sup>2</sup> maximum<br>• with conductor cross-section = 2.5 mm <sup>2</sup> maximum<br>• with conductor cross-section = 2.5 mm <sup>2</sup> maximum<br>type of connectable conductor cross-sections | screw fixing<br>306 mm<br>185 mm<br>203 mm<br>10 mm<br>0 mm<br>100 mm<br>75 mm<br>5 mm<br>5.6 kg<br>box terminal<br>screw-type terminals<br>25 mm<br>50 m<br>150 m<br>250 m |
| height<br>width<br>depth<br>required spacing with side-by-side mounting<br>• forwards<br>• backwards<br>• upwards<br>• downwards<br>• at the side<br>weight without packaging<br>Connections/ Terminals<br>type of electrical connection<br>• for main current circuit<br>• for control circuit<br>width of connection bar maximum<br>wire length for thermistor connection<br>• with conductor cross-section = 0.5 mm <sup>2</sup> maximum<br>• with conductor cross-section = 1.5 mm <sup>2</sup> maximum<br>• with conductor cross-section = 2.5 mm <sup>2</sup> maximum  | screw fixing<br>306 mm<br>185 mm<br>203 mm<br>10 mm<br>0 mm<br>100 mm<br>75 mm<br>5 mm<br>5.6 kg<br>box terminal<br>screw-type terminals<br>25 mm<br>50 m<br>150 m          |

| <ul> <li>for main contacts for box terminal using the front<br/>clamping point finely stranded with core end<br/>processing</li> </ul> | 1x (2.5 50 mm²)  |
|--|--|
| <ul> <li>for main contacts for box terminal using the front<br/>clamping point stranded</li> </ul>                                     | 1x (10 70 mm²)   |
| <ul> <li>at AWG cables for main contacts for box terminal<br/>using the front clamping point</li> </ul>                                | 1x (10 2/0)  |
| <ul> <li>for main contacts for box terminal using the back<br/>clamping point solid</li> </ul>   | 1x (2.5 16 mm²)  |
| <ul> <li>at AWG cables for main contacts for box terminal<br/>using the back clamping point</li> </ul>                                 | 1x (10 2/0)  |
| <ul> <li>for main contacts for box terminal using both<br/>clamping points solid</li> </ul>  | 2x (2.5 16 mm²)  |
| <ul> <li>for main contacts for box terminal using both<br/>clamping points finely stranded with core end<br/>processing</li> </ul>     | 2x (2.5 35 mm²)  |
| <ul> <li>for main contacts for box terminal using both<br/>clamping points stranded</li> </ul>   | 2x (6 16 mm²), 2x (10 50 mm²)  |
| <ul> <li>for main contacts for box terminal using the back<br/>clamping point finely stranded with core end<br/>processing</li> </ul>  | 1x (2.5 50 mm²)  |
| <ul> <li>for main contacts for box terminal using the back<br/>clamping point stranded</li> </ul>                                      | 1x (10 70 mm²)   |
| type of connectable conductor cross-sections   |  |
| <ul> <li>for control circuit solid</li> </ul>  | 1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)   |
| <ul> <li>for control circuit finely stranded with core end<br/>processing</li> </ul>   | 1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)   |
| processing <ul> <li>at AWG cables for control circuit solid</li> </ul>   | $1 \times (20  12)  2 \times (20  14)$   |
|  | 1x (20 12), 2x (20 14)   |
| <ul> <li>wire length</li> <li>between soft starter and motor maximum</li> </ul>  | 800 m  |
| <ul> <li>at the digital inputs at AC maximum</li> </ul>  | 100 m  |
| <ul> <li>at the digital inputs at AC maximum</li> <li>at the digital inputs at DC maximum</li> </ul>                                   | 1 000 m  |
| • at the digital inputs at DC maximum tightening torque  |  |
| <ul> <li>for main contacts with screw-type terminals</li> </ul>  | 4.5 6 N·m  |
| <ul> <li>for auxiliary and control contacts with screw-type</li> </ul>   | 0.8 1.2 N·m  |
| terminals  |  |
| tightening torque [lbf·in]   |  |
| <ul> <li>for main contacts with screw-type terminals</li> </ul>  | 40 53 lbf·in   |
| for auxiliary and control contacts with screw-type     terminale   | 7 10.3 lbf·in  |
| terminals  |  |
| Ambient conditions   |  |
| installation altitude at height above sea level maximum  | 5 000 m; Derating as of 1000 m, see catalog  |
| ambient temperature  |  |
| during operation   | -25 +60 °C; Please observe derating at temperatures of 40 °C or above  |
| <ul> <li>during storage and transport</li> </ul>   | -40 +80 °C   |
| environmental category   |  |
| • during operation according to IEC 60721  | 3K6 (no ice formation, only occasional condensation), 3C3 (no salt   |
| during storage according to IEC 60721  | mist), 3S2 (sand must not get into the devices), 3M6<br>1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must |
| during transport according to IEC 60721  | not get inside the devices), 1M4<br>2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)  |
| EMC emitted interference   | acc. to IEC 60947-4-2: Class A   |
| Communication/ Protocol  |  |
|  |  |
| <ul> <li>communication module is supported</li> <li>PROFINET standard</li> </ul>   | Yes  |
| EtherNet/IP  | Yes  |
| Modbus RTU   | Yes  |
| Moduls RT0     Moduls TCP  | Yes  |
| PROFIBUS   | Yes  |
| UL/CSA ratings   |  |
|  |  |
| manufacturer's article number  |  |
| <ul> <li>of circuit breaker         <ul> <li>usable for Standard Faults at 460/480 V</li> </ul> </li> </ul>                            | Siemens type: 3VA51, max. 125 A; Iq = 10 kA  |
| according to UL  | Sigmons type: 31/451 may 125 Ar la may - 65 kA   |
| <ul> <li>— usable for High Faults at 460/480 V according to UL</li> </ul>  | Siemens type: 3VA51, max. 125 A; lq max = 65 kA  |
|  |  |

| <ul> <li>usable for</li> </ul>   |   | /480 V at  | Sieme  | ns type: 3VA51, max.          | 125 A; Iq = 10 KA                                 |                         |
|--|---|--|--|-------------------------------|---|-------------------------|
|  | Fircuit according to UL   | Vatinaida  | Siomo  | no tuno: 2)/AE1 mov           | $12E A \cdot la max = 6E k/$                      | A                       |
|  | High Faults at 460/480<br>according to UL   | v at inside-   | Sieme  | ns type: 3VA51, max.          | 125 A; Iq max = 65 KA                             | A                       |
| <ul> <li>— usable for<br/>according to</li> </ul>  | Standard Faults at 575<br>UL  | 600 V  | Sieme  | ns type: 3VA51, max.          | 125 A; lq = 10 kA                                 |                         |
|  | <ul> <li>usable for Standard Faults at 575/600 V at<br/>inside-delta circuit according to UL</li> </ul>                                     |  | Siemens type: 3VA51, max. 125 A; Iq = 10 kA  |                               |   |                         |
| <ul> <li>of the fuse</li> </ul>  | Ũ   |  |  |                               |   |                         |
| <ul> <li>— usable for<br/>according to</li> </ul>  | Standard Faults up to<br>UL   | 575/600 V  | Type: Class RK5 / K5, max. 250 A; lq = 10 kA |                               |   |                         |
|  | — usable for High Faults up to 575/600 V<br>according to UL   |  | Type: Class J / L, max. 250 A; Iq = 100 kA   |                               |   |                         |
| <ul> <li>usable for Standard Faults at inside-delta<br/>circuit up to 575/600 V according to UL</li> </ul>   |   | Type: Class RK5 / K5, max. 250 A; lq = 10 kA   |  |                               |   |                         |
| <ul> <li>— usable for High Faults at inside-delta circuit up<br/>to 575/600 V according to UL</li> </ul>   |   | Туре:  | Class J / L, max. 250 /                      | A; lq = 100 kA                |   |                         |
| operating power [hp  | ] for 3-phase motors  |  |  |                               |   |                         |
| • at 200/208 V at  | 50 °C rated value   |  | 20 hp  |                               |   |                         |
| <ul> <li>at 220/230 V at</li> </ul>  | 50 °C rated value   |  | 25 hp  |                               |   |                         |
| • at 460/480 V at  | 50 °C rated value   |  | 50 hp  |                               |   |                         |
| <ul> <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> </ul>   |   | 30 hp  |  |                               |   |                         |
| <ul> <li>at 220/230 V at value</li> </ul>  | inside-delta circuit at 5   | i0 °C rated  | 40 hp  |                               |   |                         |
| ● at 460/480 V at<br>value   | inside-delta circuit at 5   | i0 °C rated  | 75 hp  |                               |   |                         |
| contact rating of au   | xiliary contacts accord   | ding to UL   | R300-  | B300                          |   |                         |
| Safety related data  | -   | -  |  |                               |   |                         |
| protection class IP o<br>60529   | on the front according  | to IEC   | IP00;  | IP20 with cover               |   |                         |
|  | the front according to  | o IEC 60529  | finger-                                      | safe, for vertical conta      | ct from the front with                            | cover                   |
| electromagnetic cor  | -   |  | -  | ordance with IEC 6094         |   |                         |
| Certificates/ approval   | S   |  |  |                               |   |                         |
|  |   |  |  |                               |   |                         |
| General Product Ar   | proval  |  |  |                               |   | EMC                     |
| General Product Ap   | oproval   |  |  |                               |   | EMC                     |
| General Product Ap   | pproval<br>Confirmation   |  |  | Ē                             | rnr   | EMC                     |
| General Product Ap   | -   | <b>)</b>   |  | (h)                           | FAC   | EMC                     |
| General Product Ap   | -   | <b>()</b>  |  | <b>U</b>                      | EAC   |                         |
| General Product Ap   | -   | (CCC   |  | (U)<br>UL                     | EAC   | EMC<br>EMC<br>RCM       |
| General Product Ap   | -   |  |  | UL                            | EAC   | EMC<br>RCM              |
| General Product Ap   | Confirmation  | CCC Test Certifica   | ates   | UL<br>UL                      | EAC   | EMC<br>ECM              |
| (SP)   | Confirmation  |  |  | UL<br>UL<br>Marine / Shipping | EAC   | EMC<br>ECM              |
| (SP)   | Confirmation  | Type Test Cer  | rtific-                                      | Warine / Shipping             | <b>ERI</b>  | EMC<br>ECM              |
| (SP)   | Confirmation  |  | rtific-                                      | Marine / Shipping             | <b>EAC</b>  | EMC<br>ECM<br>RCM       |
| (SP)   | Confirmation  | Type Test Cer  | rtific-                                      | Marine / Shipping             | EAC   | EMC<br>ECM<br>RCM       |
| Declaration of Conf  | Confirmation  | Type Test Cer  | rtific-                                      | Marine / Shipping             | EAC<br>BUREAU<br>VERITAS                          | EMC<br>ECM              |
| Declaration of Conf  | Confirmation  | Type Test Cer  | rtific-                                      | Marine / Shipping             |   | EMC<br>RCM              |
| Declaration of Conf  | Confirmation  | Type Test Cer  | rtific-                                      | Marine / Shipping             | EAC<br>BUREAU<br>VERITAS                          | EMC<br>ECM              |
| Declaration of Conf  | Confirmation  | Type Test Cer  | rtific-                                      | Marine / Shipping             | EAC<br>BUREAU<br>VERITAS                          | EMC<br>ECM              |
| Declaration of Conf  | Confirmation<br>Formity<br>UKCA<br>other  | Type Test Cer  | rtific-                                      | Marine / Shipping             | EAC<br>BUREAU<br>VERITAS                          | EMC<br>ECM              |
| Declaration of Conf  | Confirmation  | Type Test Cer  | rtific-                                      | Marine / Shipping             | EAC<br>BUREAU<br>VERITAS                          | EMC<br>ECM              |
| Declaration of Conf  | Confirmation<br>Formity<br>UKCA<br>other  | Type Test Cer  | rtific-                                      | Marine / Shipping             | ERIC<br>BUREAU<br>VERITAS                         | EMC<br>ECM              |
| Declaration of Conf  | Confirmation<br>Formity<br>UKCA<br>other  | Type Test Cer  | rtific-                                      | Marine / Shipping             | EAC<br>BUREAU<br>VERITAS                          | EMC<br>ECM              |
| Declaration of Conf  | Confirmation<br>Formity<br>UKCA<br>other  | Type Test Cer  | rtific-                                      | Marine / Shipping             | EAC<br>UREAU<br>VERITAS                           | EMC<br>ECM              |
| Declaration of Conf  | Confirmation<br>Formity<br>UKCA<br>other  | Type Test Cer  | rtific-                                      | Marine / Shipping             | EAC<br>DUREAU<br>VERITAS                          | EMC<br>ECM              |
| Declaration of Conf<br>CEG-Konf.<br>Marine / Shipping  | Confirmation<br>Formity<br>UKCA<br>other  | Type Test Cer  | rtific-                                      | Marine / Shipping             | EAC         BURBAU         BURBAU                 | EMC<br>ECM              |
| Declaration of Conf<br>CEG-Konf.<br>Marine / Shipping<br>Warine / Shipping<br>PRS  | confirmation<br>formity<br>UKCA<br>other<br>Confirmation  | <u>Type Test Cer</u><br><u>ates/Test Re</u>  | rtific-<br>port                              | Marine / Shipping             | ERIC<br>UREAU<br>VERITAS                          | EMC<br>ECM              |
| Declaration of Conf<br>CEG-Konf.<br>Marine / Shipping<br>Warine / Shipping<br>PRS  | confirmation<br>formity<br>UKCA<br>other<br>Confirmation  | <u>Type Test Cer</u><br><u>ates/Test Re</u>  | rtific-<br>port                              | Marine / Shipping             | EAC<br>DUREAU<br>VERITAS                          | EMC                     |
| Declaration of Conf<br>CEG-Konf.<br>Marine / Shipping<br>Warine / Shipping<br>PRS  | Confirmation<br>Formity<br>UKCA<br>other<br>Confirmation  | <u>Type Test Cer</u><br><u>ates/Test Re</u>  | rtific-<br>port                              | Marine / Shipping             | EAC<br>BUREAU<br>VERITAS                          | EMC<br>ECM              |
| Declaration of Conf<br>CEG-Konf.<br>Marine / Shipping<br>Warine / Shipping<br>Eurther information<br>Information- and Do<br>https://www.siemens.<br>Industry Mall (Online                              | Confirmation<br>Formity<br>UKCA<br>other<br>Confirmation  | <u>Type Test Cer</u><br><u>ates/Test Re</u><br><u>ates/Test Re</u><br><u>gs, Brochures,.</u> | rtific-<br>port                              | ABS                           | EAC         DECEND         DECEND                 | EMC<br>ECC<br>ECC<br>US |
| Declaration of Conf<br>CEG-Konf.<br>Marine / Shipping<br>Further information<br>Information- and Do<br>https://www.siemens.<br>Industry Mall (Online<br>https://mall.industry.s<br>Cax online generato | Confirmation<br>Formity<br>UKCA<br>other<br>Confirmation<br>wnloadcenter (Catalo<br>com/ic10<br>e ordering system)<br>iemens.com/mall/en/en | Type Test Cer<br>ates/Test Rep<br>gs, Brochures,.<br>/Catalog/product                        | rtific-<br>port                              | ABS<br>ABS<br>RW5226-1TC04    | EAC         UIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII |                         |

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5226-1TC04

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW5226-1TC04&lang=en

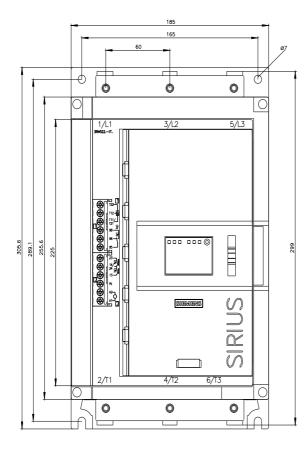
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

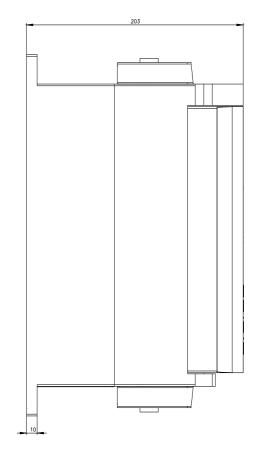
https://support.industry.siemens.com/cs/ww/en/ps/3RW5226-1TC04/char

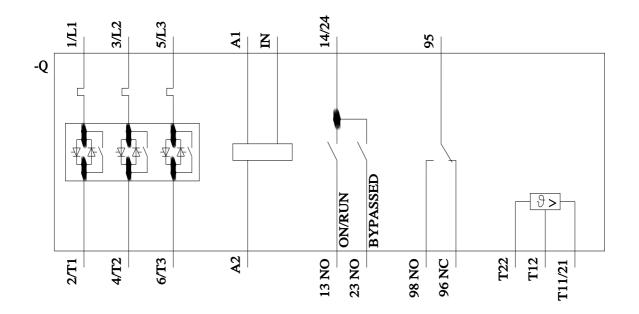
Characteristic: Installation altitude

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5226-1TC04&objecttype=14&gridview=view1 Simulation Tool for Soft Starters (STS)

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







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