## SIEMENS

## Data sheet

## 3RW5248-2TC05



SIRIUS soft starter 200-600 V 570 A, 24 V AC/DC spring-type 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 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>  | 3VA2580-6HN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10 |
| <ul> <li>of circuit breaker usable at 500 V</li> </ul>  | 3VA2580-6HN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10 |
| <ul> <li>of circuit breaker usable at 400 V at inside-delta circuit</li> </ul>                    | 3VA2510-6HN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10 |
| <ul> <li>of circuit breaker usable at 500 V at inside-delta circuit</li> </ul>                    | 3VA2510-6HN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10 |
| <ul> <li>of the gG fuse usable up to 690 V</li> </ul>   | 2x3NA3365-6; Type of coordination 1, Iq = 65 kA                  |
| <ul> <li>of the gG fuse usable at inside-delta circuit up to 500 V</li> </ul>                     | 2x3NA3365-6; 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>3NE1437-2; Type of coordination 2, Iq = 65 kA</u>             |
| <ul> <li>of back-up R fuse link for semiconductor protection</li> </ul>                           | <u>3NE3340-8; Type of coordination 2, Iq = 65 kA</u>             |

## usable up to 690 V

| 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 approval                                       | Yes  |
| CSA approval                                      | 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                                    | 1 600 V  |  |  |  |
| service factor   | 1  |  |  |  |
| surge voltage resistance rated value   | 6 kV   |  |  |  |
| maximum permissible voltage for protective separation                        |  |  |  |  |
| <ul> <li>between main and auxiliary circuit</li> </ul>                       | 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   |  |  |  |  |
| <ul> <li>ramp-up (soft starting)</li> </ul>                                  | Yes  |  |  |  |
| <ul> <li>ramp-down (soft stop)</li> </ul>                                    | Yes  |  |  |  |
| Soft Torque  | Yes  |  |  |  |
| adjustable current limitation  | Yes  |  |  |  |
| • pump ramp down   | Yes  |  |  |  |
| intrinsic device protection  | Yes  |  |  |  |
| motor overload protection  | 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                                      |  |  |  |
| • inside-delta circuit   | Yes  |  |  |  |
| auto-RESET   | Yes  |  |  |  |
| manual RESET   | Yes  |  |  |  |
| remote reset   | 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                            |  |  |  |
| error logbook  | 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 module           |  |  |  |
| firmware update  | Yes  |  |  |  |
| <ul> <li>removable terminal for control circuit</li> </ul>                   | Yes  |  |  |  |
| torque control   | No   |  |  |  |
| analog output  | No   |  |  |  |
| Power Electronics  |  |  |  |  |
| operational current  |  |  |  |  |
| at 40 °C rated value   | 570 A  |  |  |  |
| • at 50 °C rated value   | 504 A  |  |  |  |
| at 50 °C rated value   | 460 A  |  |  |  |
| operational current at inside-delta circuit                                  |  |  |  |  |
| at 40 °C rated value   | 987 A  |  |  |  |
| • at 50 °C rated value   | 873 A  |  |  |  |
| at 50 °C rated value   | 796 A  |  |  |  |
| operating voltage  | 100 A  |  |  |  |
| rated value  | 200 600 V  |  |  |  |
| at inside-delta circuit rated value  | 200 600 V<br>200 600 V   |  |  |  |
|  | -15 %  |  |  |  |
| relative negative tolerance of the operating voltage                         |  |  |  |  |
| relative positive tolerance of the operating voltage                         | 10 %   |  |  |  |
| relative negative tolerance of the operating voltage at inside-delta circuit | -15 %  |  |  |  |
| relative positive tolerance of the operating voltage at inside-delta circuit | 10 %   |  |  |  |
| operating power for 3-phase motors   |  |  |  |  |
| • at 230 V at 40 °C rated value  | 160 kW   |  |  |  |
| • at 230 V at inside-delta circuit at 40 °C rated value                      | 315 kW   |  |  |  |
| • at 400 V at 40 °C rated value  | 315 kW   |  |  |  |
| • at 400 V at inside-delta circuit at 40 °C rated value                      | 560 kW   |  |  |  |
| <ul> <li>at 500 V at 40 °C rated value</li> </ul>                            | 355 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   | 240 A                                  |
| at rotary coding switch on switch position 2   | 262 A                                  |
| • at rotary coding switch on switch position 3   | 284 A                                  |
| <ul> <li>at rotary coding switch on switch position 4</li> </ul>   | 306 A                                  |
| <ul> <li>at rotary coding switch on switch position 5</li> </ul>   | 328 A                                  |
| <ul> <li>at rotary coding switch on switch position 6</li> </ul>   | 350 A                                  |
| at rotary coding switch on switch position 7   | 372 A                                  |
| at rotary coding switch on switch position 8   | 394 A                                  |
| <ul> <li>at rotary coding switch on switch position 9</li> </ul>   | 416 A                                  |
| <ul> <li>at rotary coding switch on switch position 10</li> </ul>  | 438 A                                  |
| <ul> <li>at rotary coding switch on switch position 11</li> </ul>  | 460 A                                  |
| <ul> <li>at rotary coding switch on switch position 12</li> </ul>  | 482 A                                  |
| at rotary coding switch on switch position 13  | 504 A                                  |
| at rotary coding switch on switch position 14  | 526 A                                  |
| at rotary coding switch on switch position 15  | 548 A                                  |
| <ul> <li>at rotary coding switch on switch position 16</li> </ul>  | 570 A                                  |
| • minimum  | 240 A                                  |
| <ul> <li>• for inside-delta circuit at rotary coding switch on switch</li> </ul>   | 416 A                                  |
| <ul> <li>position 1</li> <li>for inside-delta circuit at rotary coding switch on switch</li> </ul>   | 454 A                                  |
| <ul> <li>position 2</li> <li>for inside-delta circuit at rotary coding switch on switch position 3</li> </ul>  | 492 A                                  |
| <ul> <li>for inside-delta circuit at rotary coding switch on switch<br/>position 4</li> </ul>  | 530 A                                  |
| <ul> <li>for inside-delta circuit at rotary coding switch on switch<br/>position 5</li> </ul>  | 568 A                                  |
| <ul> <li>for inside-delta circuit at rotary coding switch on switch<br/>position 6</li> </ul>  | 606 A                                  |
| <ul> <li>for inside-delta circuit at rotary coding switch on switch<br/>position 7</li> </ul>  | 644 A                                  |
| <ul> <li>for inside-delta circuit at rotary coding switch on switch<br/>position 8</li> </ul>  | 682 A                                  |
| <ul> <li>for inside-delta circuit at rotary coding switch on switch<br/>position 9</li> <li>for inside delta circuit at rotary coding switch on switch</li> </ul>  | 721 A                                  |
| <ul> <li>for inside-delta circuit at rotary coding switch on switch<br/>position 10</li> <li>for inside-delta circuit at rotary coding switch on switch</li> </ul> | 759 A<br>797 A                         |
| <ul> <li>or inside delta circuit at rotary coding switch on switch</li> <li>for inside-delta circuit at rotary coding switch on switch</li> </ul>                  | 835 A                                  |
| <ul><li>for inside-delta circuit at rotary coding switch on switch</li></ul>   | 873 A                                  |
| <ul> <li>position 13</li> <li>for inside-delta circuit at rotary coding switch on switch</li> </ul>  | 911 A                                  |
| <ul> <li>position 14</li> <li>for inside-delta circuit at rotary coding switch on switch position 15</li> </ul>  | 949 A                                  |
| <ul> <li>for inside-delta circuit at rotary coding switch on switch<br/>position 16</li> </ul>   | 987 A                                  |
| • at inside-delta circuit minimum  | 416 A                                  |
| ninimum load [%]   | 15 %; Relative to smallest settable le |
| oower loss [W] for rated value of the current at AC  |  |
| • at 40 °C after startup   | 183 W                                  |
| • at 50 °C after startup   | 163 W                                  |
| • at 60 °C after startup   | 153 W                                  |
| power loss [W] at AC at current limitation 350 %   |  |
| • at 40 °C during startup  | 10 241 W                               |
| • at 50 °C during startup  | 8 500 W                                |
| ● at 60 °C during startup  | 7 663 W                                |

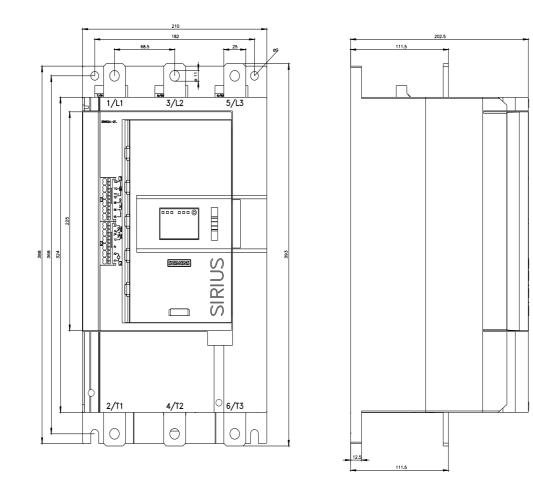
| Control circuit/ Control   |  |  |  |  |
|--|--|--|--|--|
|  |  |  |  |  |
| type of voltage of the control supply voltage                            | AC/DC  |  |  |  |
| control supply voltage at AC   |  |  |  |  |
| <ul> <li>at 50 Hz rated value</li> </ul>                                 | 24 V   |  |  |  |
| at 60 Hz rated value   | 24 V   |  |  |  |
| relative negative tolerance of the control supply voltage at AC at 50 Hz | -20 %  |  |  |  |
| relative positive tolerance of the control supply voltage at AC at 50 Hz | 20 %   |  |  |  |
| relative negative tolerance of the control supply voltage at AC at 60 Hz | -20 %  |  |  |  |
| relative positive tolerance of the control supply voltage at AC at 60 Hz | 20 %   |  |  |  |
| control supply voltage frequency   | 50 60 Hz   |  |  |  |
| relative negative tolerance of the control supply voltage<br>frequency   | -10 %  |  |  |  |
| relative positive tolerance of the control supply voltage<br>frequency   | 10 %   |  |  |  |
| control supply voltage   |  |  |  |  |
| at DC rated value  | 24 V   |  |  |  |
| relative negative tolerance of the control supply voltage at DC          | -20 %  |  |  |  |
| relative positive tolerance of the control supply voltage at DC          | 20 %   |  |  |  |
| control supply current in standby mode rated value                       | 160 mA   |  |  |  |
| holding current in bypass operation rated value                          | 470 mA   |  |  |  |
| inrush current by closing the bypass contacts maximum                    | 7.6 A  |  |  |  |
| inrush current peak at application of control supply voltage maximum     | 3.3 A  |  |  |  |
| duration of inrush current peak at application of control 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 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 |  |  |  |
| Inputs/ Outputs  |  |  |  |  |
| number of digital inputs   | 1  |  |  |  |
| number of digital outputs  | 3  |  |  |  |
| not parameterizable  | 2  |  |  |  |
| digital output version   | 2 normally-open contacts (NO) / 1 changeover contact (CO)  |  |  |  |
| number of analog outputs   |  |  |  |  |
| switching capacity current of the relay outputs                          | •  |  |  |  |
| at AC-15 at 250 V rated value  | 3 A  |  |  |  |
| at DC-13 at 24 V rated value   | 1A   |  |  |  |
| Installation/ mounting/ dimensions                                       |  |  |  |  |
|  | with vertical mounting surface $\pm 1.00^{\circ}$ rotatable, with vertical mounting surface  |  |  |  |
| 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   | 393 mm   |  |  |  |
| width  | 210 mm   |  |  |  |
| depth  | 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   |  |  |  |
| weight without packaging   | 10.6 kg  |  |  |  |
| Connections/ Terminals   |  |  |  |  |
| type of electrical connection  |  |  |  |  |
| • for main current circuit   | busbar connection  |  |  |  |
| <ul> <li>for control circuit</li> </ul>                                  | spring-loaded terminals  |  |  |  |
|  |  |  |  |  |
| width of connection bar maximum  | 45 mm  |  |  |  |

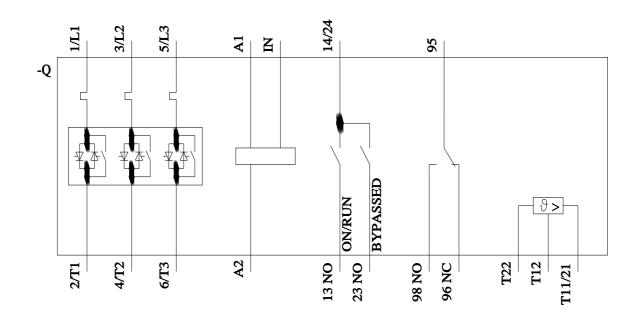
| a with conductor cross section = 0.5 mm <sup>2</sup> mm <sup>2</sup>   | 50 m   |  |  |  |
|--|--|--|--|--|
| • with conductor cross-section = 0.5 mm <sup>2</sup> maximum   | 50 m   |  |  |  |
| • with conductor cross-section = 1.5 mm <sup>2</sup> maximum   | 150 m  |  |  |  |
| • with conductor cross-section = 2.5 mm <sup>2</sup> maximum   | 250 m  |  |  |  |
| type of connectable conductor cross-sections   |  |  |  |  |
| 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 mm²)  |  |  |  |
| type of connectable conductor cross-sections   |  |  |  |  |
| <ul> <li>for control circuit solid</li> </ul>  | 2x (0.25 1.5 mm²)  |  |  |  |
| <ul> <li>for control circuit finely stranded with core end processing</li> </ul>   | 2x (0.25 1.5 mm²)  |  |  |  |
| <ul> <li>for AWG cables for control circuit solid</li> </ul>   | 2x (24 16)   |  |  |  |
| <ul> <li>for AWG cables for control circuit finely stranded with<br/>core end processing</li> </ul>  | 2x (24 16)   |  |  |  |
| wire length  |  |  |  |  |
| <ul> <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 DC maximum</li> </ul>  | 1 000 m  |  |  |  |
| tightening torque  |  |  |  |  |
| <ul> <li>for main contacts with screw-type terminals</li> </ul>  | 14 24 N·m  |  |  |  |
| <ul> <li>for auxiliary and control contacts with screw-type terminals</li> </ul>   | 0.8 1.2 N·m  |  |  |  |
| tightening torque [lbf·in]   |  |  |  |  |
| <ul> <li>for main contacts with screw-type terminals</li> </ul>  | 124 210 lbf·in   |  |  |  |
| <ul> <li>for auxiliary and control contacts with screw-type</li> </ul>   | 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  |  |  |  |
| during storage and transport   | -40 +80 °C   |  |  |  |
| environmental category   |  |  |  |  |
| <ul> <li>during operation according to IEC 60721</li> </ul>  | 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (cand must not not into the devices) 3M6   |  |  |  |
| • during storage according to IEC 60721  | <ul> <li>(sand must not get into the devices), 3M6</li> <li>1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4</li> </ul>   |  |  |  |
| <ul> <li>during transport according to IEC 60721</li> </ul>  | 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)  |  |  |  |
| EMC emitted interference   | acc. to IEC 60947-4-2: Class A   |  |  |  |
| Communication/ Protocol  | acc. to IEO 00047-4-2. Old33 A   |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
| communication module is supported  | Vec  |  |  |  |
| communication module is supported<br>• PROFINET standard   | Yes  |  |  |  |
| communication module is supported<br>• PROFINET standard<br>• EtherNet/IP  | Yes  |  |  |  |
| communication module is supported<br>• PROFINET standard<br>• EtherNet/IP<br>• Modbus RTU  | Yes<br>Yes   |  |  |  |
| communication module is supported<br>• PROFINET standard<br>• EtherNet/IP<br>• Modbus RTU<br>• Modbus TCP  | Yes<br>Yes<br>Yes  |  |  |  |
| communication module is supported<br>• PROFINET standard<br>• EtherNet/IP<br>• Modbus RTU<br>• Modbus TCP<br>• PROFIBUS  | Yes<br>Yes   |  |  |  |
| communication module is supported<br>• PROFINET standard<br>• EtherNet/IP<br>• Modbus RTU<br>• Modbus TCP<br>• PROFIBUS<br>UL/CSA ratings  | Yes<br>Yes<br>Yes  |  |  |  |
| communication module is supported<br>• PROFINET standard<br>• EtherNet/IP<br>• Modbus RTU<br>• Modbus TCP<br>• PROFIBUS<br>UL/CSA ratings<br>manufacturer's article number   | Yes<br>Yes<br>Yes  |  |  |  |
| communication module is supported<br>• PROFINET standard<br>• EtherNet/IP<br>• Modbus RTU<br>• Modbus TCP<br>• PROFIBUS<br>UL/CSA ratings  | Yes<br>Yes<br>Yes  |  |  |  |
| communication module is supported<br>• PROFINET standard<br>• EtherNet/IP<br>• Modbus RTU<br>• Modbus TCP<br>• PROFIBUS<br>UL/CSA ratings<br>manufacturer's article number<br>• of the fuse<br>— usable for Standard Faults up to 575/600 V<br>according to UL   | Yes<br>Yes<br>Yes<br>Yes<br>Type: Class J / L, max. 1600 A; lq = 30 kA   |  |  |  |
| communication module is supported<br>• PROFINET standard<br>• EtherNet/IP<br>• Modbus RTU<br>• Modbus TCP<br>• PROFIBUS<br>UL/CSA ratings<br>manufacturer's article number<br>• of the fuse<br>— usable for Standard Faults up to 575/600 V  | Yes<br>Yes<br>Yes<br>Yes<br>Type: Class J / L, max. 1600 A; lq = 30 kA<br>Type: Class J / L, max. 1200 A; lq = 100 kA  |  |  |  |
| communication module is supported<br>• PROFINET standard<br>• EtherNet/IP<br>• Modbus RTU<br>• Modbus TCP<br>• PROFIBUS<br>UL/CSA ratings<br>manufacturer's article number<br>• of the fuse<br>— usable for Standard Faults up to 575/600 V<br>according to UL<br>— usable for High Faults up to 575/600 V according to  | Yes<br>Yes<br>Yes<br>Yes<br>Type: Class J / L, max. 1600 A; lq = 30 kA   |  |  |  |
| communication module is supported<br>• PROFINET standard<br>• EtherNet/IP<br>• Modbus RTU<br>• Modbus TCP<br>• PROFIBUS<br>UL/CSA ratings<br>UL/CSA ratings<br>manufacturer's article number<br>• of the fuse<br>— usable for Standard Faults up to 575/600 V<br>according to UL<br>— usable for High Faults up to 575/600 V according to<br>UL<br>— usable for Standard Faults at inside-delta circuit up   | Yes<br>Yes<br>Yes<br>Yes<br>Type: Class J / L, max. 1600 A; lq = 30 kA<br>Type: Class J / L, max. 1200 A; lq = 100 kA  |  |  |  |
| communication module is supported<br>PROFINET standard<br>EtherNet/IP<br>Modbus RTU<br>Modbus TCP<br>PROFIBUS<br>UL/CSA ratings<br>UL/CSA ratings<br>manufacturer's article number<br>of the fuse<br>— usable for Standard Faults up to 575/600 V<br>according to UL<br>— usable for High Faults up to 575/600 V according to<br>UL<br>— usable for Standard Faults at inside-delta circuit up<br>to 575/600 V according to UL<br>— usable for High Faults at inside-delta circuit up<br>to 575/600 V according to UL<br>— usable for High Faults at inside-delta circuit up to  | Yes<br>Yes<br>Yes<br>Yes<br>Type: Class J / L, max. 1600 A; lq = 30 kA<br>Type: Class J / L, max. 1200 A; lq = 100 kA<br>Type: Class J / L, max. 1600 A; lq = 30 kA  |  |  |  |
| communication module is supported<br>PROFINET standard<br>EtherNet/IP<br>Modbus RTU<br>Modbus TCP<br>PROFIBUS<br>UL/CSA ratings<br>manufacturer's article number<br>of the fuse<br>— usable for Standard Faults up to 575/600 V<br>according to UL<br>— usable for High Faults up to 575/600 V according to<br>UL<br>— usable for Standard Faults at inside-delta circuit up<br>to 575/600 V according to UL<br>— usable for High Faults at inside-delta circuit up<br>to 575/600 V according to UL  | Yes<br>Yes<br>Yes<br>Yes<br>Type: Class J / L, max. 1600 A; lq = 30 kA<br>Type: Class J / L, max. 1200 A; lq = 100 kA<br>Type: Class J / L, max. 1600 A; lq = 30 kA  |  |  |  |
| communication module is supported<br>PROFINET standard<br>EtherNet/IP<br>Modbus RTU<br>Modbus TCP<br>PROFIBUS<br>UL/CSA ratings<br>manufacturer's article number<br>of the fuse<br>  | Yes<br>Yes<br>Yes<br>Yes<br>Type: Class J / L, max. 1600 A; lq = 30 kA<br>Type: Class J / L, max. 1200 A; lq = 100 kA<br>Type: Class J / L, max. 1600 A; lq = 30 kA<br>Type: Class J / L, max. 1200 A; lq = 100 kA   |  |  |  |
| communication module is supported<br>PROFINET standard<br>EtherNet/IP<br>Modbus RTU<br>Modbus TCP<br>PROFIBUS<br>UL/CSA ratings<br>manufacturer's article number<br>of the fuse<br>usable for Standard Faults up to 575/600 V<br>according to UL<br>usable for High Faults up to 575/600 V according to<br>UL<br>usable for Standard Faults at inside-delta circuit up<br>to 575/600 V according to UL<br>usable for High Faults at inside-delta circuit up<br>to 575/600 V according to UL<br>usable for High Faults at inside-delta circuit up<br>to 575/600 V according to UL<br>usable for High Faults at inside-delta circuit up to<br>575/600 V according to UL<br>usable for High Faults at inside-delta circuit up to<br>575/600 V according to UL<br>operating power [hp] for 3-phase motors<br>at 200/208 V at 50 °C rated value   | Yes<br>Yes<br>Yes<br>Yes<br>Type: Class J / L, max. 1600 A; lq = 30 kA<br>Type: Class J / L, max. 1200 A; lq = 100 kA<br>Type: Class J / L, max. 1600 A; lq = 30 kA<br>Type: Class J / L, max. 1600 A; lq = 100 kA<br>150 hp   |  |  |  |
| communication module is supported<br>PROFINET standard<br>EtherNet/IP<br>Modbus RTU<br>Modbus TCP<br>PROFIBUS<br>UL/CSA ratings<br>manufacturer's article number<br>of the fuse<br>usable for Standard Faults up to 575/600 V<br>according to UL<br>usable for High Faults up to 575/600 V according to<br>UL<br>usable for Standard Faults at inside-delta circuit up<br>to 575/600 V according to UL<br>usable for High Faults at inside-delta circuit up<br>to 575/600 V according to UL<br>usable for High Faults at inside-delta circuit up<br>to 575/600 V according to UL<br>usable for High Faults at inside-delta circuit up to<br>575/600 V according to UL<br>usable for High Faults at inside-delta circuit up to<br>575/600 V according to UL<br>operating power [hp] for 3-phase motors<br>at 200/208 V at 50 °C rated value<br>at 220/230 V at 50 °C rated value  | Yes<br>Yes<br>Yes<br>Yes<br>Type: Class J / L, max. 1600 A; lq = 30 kA<br>Type: Class J / L, max. 1200 A; lq = 100 kA<br>Type: Class J / L, max. 1200 A; lq = 30 kA<br>Type: Class J / L, max. 1200 A; lq = 100 kA   |  |  |  |
| communication module is supported<br>PROFINET standard<br>EtherNet/IP<br>Modbus RTU<br>Modbus TCP<br>PROFIBUS<br>UL/CSA ratings<br>UL/CSA ratings<br>manufacturer's article number<br>of the fuse<br>— usable for Standard Faults up to 575/600 V<br>according to UL<br>— usable for High Faults up to 575/600 V according to<br>UL<br>— usable for Standard Faults at inside-delta circuit up<br>to 575/600 V according to UL<br>— usable for High Faults at inside-delta circuit up<br>to 575/600 V according to UL<br>— usable for High Faults at inside-delta circuit up to<br>575/600 V according to UL<br>— usable for High Faults at inside-delta circuit up to<br>575/600 V according to UL<br>operating power [hp] for 3-phase motors<br>at 200/208 V at 50 °C rated value<br>at 460/480 V at 50 °C rated value   | Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Type: Class J / L, max. 1600 A; lq = 30 kA<br>Type: Class J / L, max. 1200 A; lq = 100 kA<br>Type: Class J / L, max. 1600 A; lq = 30 kA<br>Type: Class J / L, max. 1200 A; lq = 100 kA  |  |  |  |
| <pre>communication module is supported<br/>PROFINET standard<br/>EtherNet/IP<br/>Modbus RTU<br/>Modbus TCP<br/>PROFIBUS<br/>UL/CSA ratings<br/>manufacturer's article number<br/>of the fuse<br/>— usable for Standard Faults up to 575/600 V<br/>according to UL<br/>— usable for High Faults up to 575/600 V according to<br/>UL<br/>— usable for Standard Faults at inside-delta circuit up<br/>to 575/600 V according to UL<br/>— usable for Standard Faults at inside-delta circuit up<br/>to 575/600 V according to UL<br/>— usable for High Faults at inside-delta circuit up to<br/>575/600 V according to UL<br/>— usable for High Faults at inside-delta circuit up to<br/>575/600 V according to UL<br/>— usable for 3-phase motors<br/>at 200/208 V at 50 °C rated value<br/>at 460/480 V at 50 °C rated value<br/>at 460/480 V at 50 °C rated value<br/>at 575/600 V at 50 °C rated value</pre>   | Yes<br>Yes<br>Yes<br>Yes<br>Type: Class J / L, max. 1600 A; lq = 30 kA<br>Type: Class J / L, max. 1200 A; lq = 100 kA<br>Type: Class J / L, max. 1200 A; lq = 30 kA<br>Type: Class J / L, max. 1200 A; lq = 100 kA<br>150 hp<br>200 hp<br>400 hp<br>500 hp                     |  |  |  |
| communication module is supported<br>PROFINET standard<br>EtherNet/IP<br>Modbus RTU<br>Modbus TCP<br>PROFIBUS<br>UL/CSA ratings<br>manufacturer's article number<br>of the fuse<br>  | Yes<br>Yes<br>Yes<br>Yes<br>Type: Class J / L, max. 1600 A; lq = 30 kA<br>Type: Class J / L, max. 1200 A; lq = 100 kA<br>Type: Class J / L, max. 1200 A; lq = 30 kA<br>Type: Class J / L, max. 1600 A; lq = 30 kA<br>Type: Class J / L, max. 1200 A; lq = 100 kA               |  |  |  |
| <pre>communication module is supported<br/>PROFINET standard<br/>EtherNet/IP<br/>Modbus RTU<br/>Modbus TCP<br/>PROFIBUS<br/>UL/CSA ratings<br/>manufacturer's article number<br/>of the fuse<br/>— usable for Standard Faults up to 575/600 V<br/>according to UL<br/>— usable for Standard Faults up to 575/600 V according to<br/>UL<br/>— usable for Standard Faults at inside-delta circuit up<br/>to 575/600 V according to<br/>UL<br/>— usable for Standard Faults at inside-delta circuit up<br/>to 575/600 V according to UL<br/>— usable for High Faults at inside-delta circuit up to<br/>575/600 V according to UL<br/>— usable for High Faults at inside-delta circuit up to<br/>575/600 V according to UL<br/>operating power [hp] for 3-phase motors<br/>at 200/208 V at 50 °C rated value<br/>at 460/480 V at 50 °C rated value<br/>at 460/480 V at 50 °C rated value<br/>at 200/208 V at inside-delta circuit at 50 °C rated value<br/>at 200/208 V at inside-delta circuit at 50 °C rated value<br/>at 220/230 V at inside-delta circuit at 50 °C rated value<br/>at 220/230 V at inside-delta circuit at 50 °C rated value<br/>at 220/230 V at inside-delta circuit at 50 °C rated value<br/>at 220/230 V at inside-delta circuit at 50 °C rated value<br/>at 220/230 V at inside-delta circuit at 50 °C rated value<br/>at 220/230 V at inside-delta circuit at 50 °C rated value<br/>at 220/230 V at inside-delta circuit at 50 °C rated value<br/>at 220/230 V at inside-delta circuit at 50 °C rated value<br/>bat 220/230 V at inside-delta circuit at 50 °C rated value<br/>at 220/230 V at inside-delta circuit at 50 °C rated value<br/>at 220/230 V at inside-delta circuit at 50 °C rated value<br/>at 220/230 V at inside-delta circuit at 50 °C rated value<br/>at 220/230 V at inside-delta circuit at 50 °C rated value<br/>at 220/230 V at inside-delta circuit at 50 °C rated value<br/>at</pre> | Yes<br>Yes<br>Yes<br>Yes<br>Type: Class J / L, max. 1600 A; lq = 30 kA<br>Type: Class J / L, max. 1200 A; lq = 100 kA<br>Type: Class J / L, max. 1200 A; lq = 30 kA<br>Type: Class J / L, max. 1600 A; lq = 100 kA<br>150 hp<br>200 hp<br>400 hp<br>500 hp<br>300 hp<br>350 hp |  |  |  |

| contact rating of auxi   | liary contacts according   | g to UL F          | R300-B300                      |                               |                          |  |
|--|--|--------------------|--------------------------------|-------------------------------|--------------------------|--|
| Safety related data  |  |                    |                                |                               |                          |  |
| protection class IP or   | the front according to   | IEC 60529          | P00; IP20 with cover           |                               |                          |  |
| touch protection on the  | he front according to IE   | C 60529 fi         | nger-safe, for vertical contac | t from the front with cover   |                          |  |
| electromagnetic com  | patibility   | ir                 | accordance with IEC 60947      | 7-4-2                         |                          |  |
| Certificates/ approvals  |  |                    |                                |                               |                          |  |
| General Product App  | roval  |                    |                                |                               | EMC                      |  |
|  |  |                    |                                |                               |                          |  |
|  | <b>Confirmation</b>  | (m)                | ŝ                              | rnr                           | A                        |  |
| <u>A</u> Ø   |  | (m)                | (ŸL)                           | FHI                           | <u>/\bar{v}</u>          |  |
| CSA  |  | CCC                | UL                             | LIIL                          | RCM                      |  |
|  |  |                    |                                |                               |                          |  |
|  |  |                    |                                |                               |                          |  |
| Declaration of Confo   | rmity  | Test Certificates  | Marine / Shipping              |                               |                          |  |
|  |  |                    |                                |                               |                          |  |
| UK   | ~ ~  | Type Test Certific | and the second                 | 873 B                         | Lloyde                   |  |
|  |  | ates/Test Report   |                                | ( ); ( )                      | Register                 |  |
| CA   | EG-Konf.   |                    | ABS                            | - AL                          | URS                      |  |
|  |  |                    |                                | VERITAS                       |                          |  |
|  |  |                    |                                |                               |                          |  |
| Marine / Shipping  | other  |                    |                                |                               |                          |  |
|  |  |                    |                                |                               |                          |  |
| (And a state of the state of th | <b>Confirmation</b>  |                    |                                |                               |                          |  |
| (23)   |  |                    |                                |                               |                          |  |
| DBS .  |  |                    |                                |                               |                          |  |
| 110  |  |                    |                                |                               |                          |  |
|  |  |                    |                                |                               |                          |  |
| Further information  |  |                    |                                |                               |                          |  |
|  | to exit the Russian mar  | ket (see here)     |                                |                               |                          |  |
|  | om/global/en/pressreleas   |                    | -russian-business              |                               |                          |  |
|  | n the renewal of the cur   |                    |                                |                               |                          |  |
|  | cal Siemens office on the other than the sanctioned  |                    | EAC certification if you inter | nd to import or offer to supp | bly these products to an |  |
| Information on the pa  |  |                    |                                |                               |                          |  |
| https://support.industry.siemens.com/cs/ww/en/view/109813875   |  |                    |                                |                               |                          |  |
| Information- and Downloadcenter (Catalogs, Brochures,)   |  |                    |                                |                               |                          |  |
| https://www.siemens.com/ic10<br>Industry Mall (Online ordering system)   |  |                    |                                |                               |                          |  |
| https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW5248-2TC05  |  |                    |                                |                               |                          |  |
| Cax online generator   |  |                    |                                |                               |                          |  |
|  | http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5248-2TC05<br>Service&Support (Manuals, Certificates, Characteristics, FAQs,) |                    |                                |                               |                          |  |
|  | .siemens.com/cs/ww/en/p  |                    |                                |                               |                          |  |
| Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)  |  |                    |                                |                               |                          |  |
| http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5248-2TC05⟨=en<br>Characteristic: Tripping characteristics, I <sup>2</sup> t, Let-through current   |  |                    |                                |                               |                          |  |
|  | .siemens.com/cs/ww/en/p  |                    | nar                            |                               |                          |  |
| Characteristic: Install  |  |                    |                                |                               |                          |  |

Characteristic: Installation altitude http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5248-2TC05&objecttype=14&gridview=view1 Simulation Tool for Soft Starters (STS)

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





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