

Siemens  
EcoTech



SIRIUS soft starter 200-600 V 25 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                                               |                                                                             |
| • of standard HMI module usable                                             | <a href="#">3RW5980-0HS00</a>                                               |
| • of high feature HMI module usable                                         | <a href="#">3RW5980-0HF00</a>                                               |
| • of communication module PROFINET standard usable                          | <a href="#">3RW5980-0CS00</a>                                               |
| • of communication module PROFIBUS usable                                   | <a href="#">3RW5980-0CP00</a>                                               |
| • of communication module Modbus TCP usable                                 | <a href="#">3RW5980-0CT00</a>                                               |
| • of communication module Modbus RTU usable                                 | <a href="#">3RW5980-0CR00</a>                                               |
| • of communication module Ethernet/IP                                       | <a href="#">3RW5980-0CE00</a>                                               |
| • of circuit breaker usable at 400 V                                        | <a href="#">3RV2032-4EA10: Type of coordination 1, Iq = 65 kA, CLASS 10</a> |
| • of circuit breaker usable at 500 V                                        | <a href="#">3RV2032-4EA10: Type of coordination 1, Iq = 15 kA, CLASS 10</a> |
| • 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> |
| • 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> |
| • of the gG fuse usable up to 690 V                                         | <a href="#">3NA3822-6: Type of coordination 1, Iq = 65 kA</a>               |
| • 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>               |
| • 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>               |
| • 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>               |
| 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                                                                          |
| • is supported HMI-Standard                                                 | Yes                                                                         |
| • is supported HMI-High Feature                                             | Yes                                                                         |
| product feature integrated bypass contact system                            | Yes                                                                         |
| number of controlled phases                                                 | 3                                                                           |
| buffering time in the event of power failure                                |                                                                             |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
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| <ul style="list-style-type: none"> <li>• for main current circuit</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 100 ms                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <ul style="list-style-type: none"> <li>• for control circuit</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 100 ms                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>insulation voltage rated value</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 600 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>surge voltage resistance rated value</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 6 kV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>maximum permissible voltage for protective separation</b> <ul style="list-style-type: none"> <li>• between main and auxiliary circuit</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 600 V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>shock resistance</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 15 g / 11 ms, from 12 g / 11 ms with potential contact lifting                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>vibration resistance</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 15 mm to 6 Hz; 2g to 500 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| utilization category according to IEC 60947-4-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | AC 53a                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>reference code according to IEC 81346-2</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Q                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Substance Prohibitance (Date)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 02/15/2018                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>SVHC substance name</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Lead - 7439-92-1<br>Lead monoxide (lead oxide) - 1317-36-8<br>2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one - 71868-10-5<br>Dibutylbis(pentane-2,4-dionato-O,O')tin - 22673-19-4<br>Diboron trioxide - 1303-86-2                                                                                                                                                                                                                                                                 |
| <b>Weight</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 2.3 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>product function</b> <ul style="list-style-type: none"> <li>• ramp-up (soft starting)</li> <li>• ramp-down (soft stop)</li> <li>• Soft Torque</li> <li>• adjustable current limitation</li> <li>• pump ramp down</li> <li>• intrinsic device protection</li> <li>• motor overload protection</li> <li>• evaluation of thermistor motor protection</li> <li>• inside-delta circuit</li> <li>• auto-RESET</li> <li>• manual RESET</li> <li>• remote reset</li> <li>• communication function</li> <li>• operating measured value display</li> <li>• error logbook</li> <li>• via software parameterizable</li> <li>• via software configurable</li> <li>• <b>PROFInergy</b></li> <li>• <b>firmware update</b></li> <li>• <b>removable terminal for control circuit</b></li> <li>• torque control</li> <li>• analog output</li> </ul> | Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes; Full motor protection (thermistor motor protection and electronic motor overload protection)<br>Yes; Type A PTC or Klaxon / Thermoclick<br>Yes<br>Yes<br>Yes<br>Yes; By turning off the control supply voltage<br>Yes<br>Yes; Only in conjunction with special accessories<br>Yes; Only in conjunction with special accessories<br>No<br>Yes<br>Yes; in connection with the PROFINET Standard communication module<br>Yes<br>Yes<br>No<br>No |
| <b>Power Electronics</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>operational current</b> <ul style="list-style-type: none"> <li>• at 40 °C rated value</li> <li>• at 50 °C rated value</li> <li>• at 60 °C rated value</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 25 A<br>22.3 A<br>19.6 A                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>operational current at inside-delta circuit</b> <ul style="list-style-type: none"> <li>• at 40 °C rated value</li> <li>• at 50 °C rated value</li> <li>• at 60 °C rated value</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 43.3 A<br>39 A<br>33.9 A                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>operating voltage</b> <ul style="list-style-type: none"> <li>• rated value</li> <li>• at inside-delta circuit rated value</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 200 ... 600 V<br>200 ... 600 V                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>relative negative tolerance of the operating voltage</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | -15 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>relative positive tolerance of the operating voltage</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 10 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>relative negative tolerance of the operating voltage at inside-delta circuit</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -15 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>relative positive tolerance of the operating voltage at inside-delta circuit</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 10 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

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|--------------------------------------------------------------------------|----------------------------------------------------|
| <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                                            |
| • at 500 V at 40 °C rated value                                          | 15 kW                                              |
| • at 500 V at inside-delta circuit at 40 °C rated value                  | 22 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>adjustable motor current</b>                                          |                                                    |
| • at rotary coding switch on switch position 1                           | 11.5 A                                             |
| • at rotary coding switch on switch position 2                           | 12.4 A                                             |
| • at rotary coding switch on switch position 3                           | 13.3 A                                             |
| • at rotary coding switch on switch position 4                           | 14.2 A                                             |
| • at rotary coding switch on switch position 5                           | 15.1 A                                             |
| • at rotary coding switch on switch position 6                           | 16 A                                               |
| • at rotary coding switch on switch position 7                           | 16.9 A                                             |
| • at rotary coding switch on switch position 8                           | 17.8 A                                             |
| • at rotary coding switch on switch position 9                           | 18.7 A                                             |
| • at rotary coding switch on switch position 10                          | 19.6 A                                             |
| • at rotary coding switch on switch position 11                          | 20.5 A                                             |
| • at rotary coding switch on switch position 12                          | 21.4 A                                             |
| • at rotary coding switch on switch position 13                          | 22.3 A                                             |
| • at rotary coding switch on switch position 14                          | 23.2 A                                             |
| • at rotary coding switch on switch position 15                          | 24.1 A                                             |
| • at rotary coding switch on switch position 16                          | 25 A                                               |
| • minimum                                                                | 11.5 A                                             |
| <b>adjustable motor current</b>                                          |                                                    |
| • for inside-delta circuit at rotary coding switch on switch position 1  | 19.9 A                                             |
| • for inside-delta circuit at rotary coding switch on switch position 2  | 21.5 A                                             |
| • for inside-delta circuit at rotary coding switch on switch position 3  | 23 A                                               |
| • for inside-delta circuit at rotary coding switch on switch position 4  | 24.6 A                                             |
| • for inside-delta circuit at rotary coding switch on switch position 5  | 26.2 A                                             |
| • for inside-delta circuit at rotary coding switch on switch position 6  | 27.7 A                                             |
| • for inside-delta circuit at rotary coding switch on switch position 7  | 29.3 A                                             |
| • for inside-delta circuit at rotary coding switch on switch position 8  | 30.8 A                                             |
| • for inside-delta circuit at rotary coding switch on switch position 9  | 32.4 A                                             |
| • for inside-delta circuit at rotary coding switch on switch position 10 | 33.9 A                                             |
| • for inside-delta circuit at rotary coding switch on switch position 11 | 35.5 A                                             |
| • for inside-delta circuit at rotary coding switch on switch position 12 | 37.1 A                                             |
| • for inside-delta circuit at rotary coding switch on switch position 13 | 38.6 A                                             |
| • for inside-delta circuit at rotary coding switch on switch position 14 | 40.2 A                                             |
| • for inside-delta circuit at rotary coding switch on switch position 15 | 41.7 A                                             |
| • for inside-delta circuit at rotary coding switch on switch position 16 | 43.3 A                                             |
| • at inside-delta circuit minimum                                        | 19.9 A                                             |
| <b>minimum load [%]</b>                                                  | 15 %; Relative to smallest settable I <sub>e</sub> |
| <b>power loss [W] for rated value of the current at AC</b>               |                                                    |
| • at 40 °C after startup                                                 | 20 W                                               |

|                                                                                                                                                   |                                                                                                                                                                                |
|---------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• at 50 °C after startup</li> <li>• at 60 °C after startup</li> </ul>                                      | 19 W<br>18 W                                                                                                                                                                   |
| <b>power loss [W] at AC at current limitation 350 %</b>                                                                                           |                                                                                                                                                                                |
| <ul style="list-style-type: none"> <li>• at 40 °C during startup</li> <li>• at 50 °C during startup</li> <li>• at 60 °C during startup</li> </ul> | 376 W<br>318 W<br>278 W                                                                                                                                                        |
| <b>Control circuit/ Control</b>                                                                                                                   |                                                                                                                                                                                |
| <b>type of voltage of the control supply voltage</b>                                                                                              | AC/DC                                                                                                                                                                          |
| <b>control supply voltage at AC</b>                                                                                                               |                                                                                                                                                                                |
| <ul style="list-style-type: none"> <li>• at 50 Hz rated value</li> <li>• at 60 Hz rated value</li> </ul>                                          | 24 V<br>24 V                                                                                                                                                                   |
| <b>relative negative tolerance of the control supply voltage at AC at 50 Hz</b>                                                                   | -20 %                                                                                                                                                                          |
| <b>relative positive tolerance of the control supply voltage at AC at 50 Hz</b>                                                                   | 20 %                                                                                                                                                                           |
| <b>relative negative tolerance of the control supply voltage at AC at 60 Hz</b>                                                                   | -20 %                                                                                                                                                                          |
| <b>relative positive tolerance of the control supply voltage at AC at 60 Hz</b>                                                                   | 20 %                                                                                                                                                                           |
| <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 voltage at DC rated value</b>                                                                                                   | 24 V                                                                                                                                                                           |
| <b>relative negative tolerance of the control supply voltage at DC</b>                                                                            | -20 %                                                                                                                                                                          |
| <b>relative positive tolerance of the control supply voltage at DC</b>                                                                            | 20 %                                                                                                                                                                           |
| <b>control supply current in standby mode rated value</b>                                                                                         | 160 mA                                                                                                                                                                         |
| <b>holding current in bypass operation rated value</b>                                                                                            | 360 mA                                                                                                                                                                         |
| <b>inrush current by closing the bypass contacts maximum</b>                                                                                      | 0.75 A                                                                                                                                                                         |
| <b>inrush current peak at application of control supply voltage maximum</b>                                                                       | 3.3 A                                                                                                                                                                          |
| <b>duration of inrush current peak at application of control supply voltage</b>                                                                   | 12.1 ms                                                                                                                                                                        |
| <b>design of the overvoltage protection</b>                                                                                                       | Varistor                                                                                                                                                                       |
| <b>design of short-circuit protection for control circuit</b>                                                                                     | 4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply |
| <b>Inputs/ Outputs</b>                                                                                                                            |                                                                                                                                                                                |
| <b>number of digital inputs</b>                                                                                                                   | 1                                                                                                                                                                              |
| <b>number of digital outputs</b>                                                                                                                  | 3                                                                                                                                                                              |
| <ul style="list-style-type: none"> <li>• not parameterizable</li> </ul>                                                                           | 2                                                                                                                                                                              |
| <b>digital output version</b>                                                                                                                     | 2 normally-open contacts (NO) / 1 changeover contact (CO)                                                                                                                      |
| <b>number of analog outputs</b>                                                                                                                   | 0                                                                                                                                                                              |
| <b>switching capacity current of the relay outputs</b>                                                                                            |                                                                                                                                                                                |
| <ul style="list-style-type: none"> <li>• at AC-15 at 250 V rated value</li> <li>• at DC-13 at 24 V rated value</li> </ul>                         | 3 A<br>1 A                                                                                                                                                                     |
| <b>Installation/ mounting/ dimensions</b>                                                                                                         |                                                                                                                                                                                |
| <b>mounting position</b>                                                                                                                          | +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface                                                                                   |
| <b>fastening method</b>                                                                                                                           | screw fixing                                                                                                                                                                   |
| <b>height</b>                                                                                                                                     | 275 mm                                                                                                                                                                         |
| <b>width</b>                                                                                                                                      | 170 mm                                                                                                                                                                         |
| <b>depth</b>                                                                                                                                      | 152 mm                                                                                                                                                                         |
| <b>required spacing with side-by-side mounting</b>                                                                                                |                                                                                                                                                                                |
| <ul style="list-style-type: none"> <li>• forwards</li> <li>• backwards</li> <li>• upwards</li> <li>• downwards</li> <li>• at the side</li> </ul>  | 10 mm<br>0 mm<br>100 mm<br>75 mm<br>5 mm                                                                                                                                       |
| <b>weight without packaging</b>                                                                                                                   | 2.1 kg                                                                                                                                                                         |
| <b>Connections/ Terminals</b>                                                                                                                     |                                                                                                                                                                                |

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| <b>type of electrical connection</b> <ul style="list-style-type: none"> <li>• for main current circuit</li> <li>• for control circuit</li> </ul>                                                                                                                                                                                                     | screw-type terminals<br>spring-loaded terminals                                                                                                                                                                                                                                   |
| <b>wire length for thermistor connection</b> <ul style="list-style-type: none"> <li>• with conductor cross-section = 0.5 mm<sup>2</sup> maximum</li> <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>                                                 | 50 m<br>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 AC maximum</li> <li>• at the digital inputs at DC maximum</li> </ul>                                                                                                                                          | 800 m<br>100 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                                                                                                                                                                                                                                                                                              | 5 000 m; Derating as of 1000 m, see catalog                                                                                                                                                                                                                                       |
| <b>ambient temperature</b> <ul style="list-style-type: none"> <li>• during operation</li> <li>• during storage and transport</li> </ul>                                                                                                                                                                                                              | -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>                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                   |
| Global Warming Potential [CO <sub>2</sub> eq] total                                                                                                                                                                                                                                                                                                  | 185 kg                                                                                                                                                                                                                                                                            |
| Global Warming Potential [CO <sub>2</sub> eq] during manufacturing                                                                                                                                                                                                                                                                                   | 37.2 kg                                                                                                                                                                                                                                                                           |
| global warming potential [CO <sub>2</sub> eq] during sales                                                                                                                                                                                                                                                                                           | 0.66 kg                                                                                                                                                                                                                                                                           |
| Global Warming Potential [CO <sub>2</sub> eq] during operation                                                                                                                                                                                                                                                                                       | 152 kg                                                                                                                                                                                                                                                                            |
| Global Warming Potential [CO <sub>2</sub> eq] after end of life                                                                                                                                                                                                                                                                                      | -4.19 kg                                                                                                                                                                                                                                                                          |
| Siemens Eco Profile (SEP)                                                                                                                                                                                                                                                                                                                            | Siemens EcoTech                                                                                                                                                                                                                                                                   |
| <b>Electromagnetic compatibility</b>                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                   |
| <b>EMC emitted interference</b>                                                                                                                                                                                                                                                                                                                      | acc. to IEC 60947-4-2: Class A                                                                                                                                                                                                                                                    |
| <b>Communication/ Protocol</b>                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                   |
| <b>communication module is supported</b> <ul style="list-style-type: none"> <li>• PROFINET standard</li> <li>• EtherNet/IP</li> <li>• Modbus RTU</li> <li>• Modbus TCP</li> <li>• PROFIBUS</li> </ul>                                                                                                                                                | 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>• of circuit breaker usable for Standard Faults <ul style="list-style-type: none"> <li>— at 460/480 V according to UL</li> <li>— 60/480 V according to UL</li> </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                                                                                                                    |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <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>— at 575/600 V at inside-delta circuit according to UL</li> </ul>                                                                                                                                                                                                                                                                                    | 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: 3RV2742, max. 70 A or 3VA51, max. 80 A; I <sub>q</sub> = 5 kA |
| <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> <li>— usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> </ul>                                                                                                                                                                   | Type: Class RK5 / K5, max. 100 A; I <sub>q</sub> = 5 kA<br>Type: Class J / L, max. 100 A; I <sub>q</sub> = 100 kA<br>Type: Class RK5 / K5, max. 100 A; I <sub>q</sub> = 5 kA<br>Type: Class J / L, max. 100 A; I <sub>q</sub> = 100 kA                                                                  |
| <b>operating power [hp] for 3-phase motors</b> <ul style="list-style-type: none"> <li>• at 200/208 V at 50 °C rated value</li> <li>• at 220/230 V at 50 °C rated value</li> <li>• at 460/480 V at 50 °C rated value</li> <li>• at 575/600 V at 50 °C rated value</li> <li>• at 200/208 V at inside-delta circuit at 50 °C rated value</li> <li>• at 220/230 V at inside-delta circuit at 50 °C rated value</li> <li>• at 460/480 V at inside-delta circuit at 50 °C rated value</li> <li>• at 575/600 V at inside-delta circuit at 50 °C rated value</li> </ul> | 5 hp<br>7.5 hp<br>15 hp<br>20 hp<br>10 hp<br>10 hp<br>25 hp<br>30 hp                                                                                                                                                                                                                                    |
| <b>contact rating of auxiliary contacts according to UL</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | R300-B300                                                                                                                                                                                                                                                                                               |
| Electrical Safety                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                         |
| <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                                                                                                                                                                                                                                                        |
| Approvals Certificates                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                         |
| General Product Approval                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                         |



[Confirmation](#)



| EMV               | Test Certificates                                                        | Marine / Shipping |
|-------------------|--------------------------------------------------------------------------|-------------------|
|                   | <a href="#">KC</a><br><a href="#">Type Test Certificates/Test Report</a> |                   |
| Marine / Shipping | other                                                                    | Environment       |



[Confirmation](#)



[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=3RW5215-3TC05>

### Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5215-3TC05>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RW5215-3TC05>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RW5215-3TC05&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5215-3TC05&lang=en)

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RW5215-3TC05/char>

### Characteristic: Installation altitude

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5215-3TC05&objecttype=14&gridview=view1>







