



Figure similar

SIRIUS soft starter 200-600 V 470 A, 110-250 V AC Screw terminals  
Analog output

|                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|---------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>product brand name</b>                               | SIRIUS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>product category</b>                                 | Hybrid switching devices                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>product designation</b>                              | Soft starter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>product type designation</b>                         | 3RW50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>manufacturer's article number</b>                    | <ul style="list-style-type: none"> <li>• of standard HMI module usable</li> <li>• of high feature HMI module usable</li> <li>• of communication module PROFINET standard usable</li> <li>• of communication module PROFIBUS usable</li> <li>• of communication module Modbus TCP usable</li> <li>• of communication module Modbus RTU usable</li> <li>• of communication module Ethernet/IP</li> <li>• of circuit breaker usable at 400 V</li> <li>• of circuit breaker usable at 500 V</li> <li>• of the gG fuse usable up to 690 V</li> <li>• of full range R fuse link for semiconductor protection usable up to 690 V</li> <li>• of back-up R fuse link for semiconductor protection usable up to 690 V</li> <li>• of line contactor usable up to 480 V</li> <li>• of line contactor usable up to 690 V</li> </ul> |
| <b>General technical data</b>                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>starting voltage [%]</b>                             | 30 ... 100 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>stopping voltage [%]</b>                             | 50 ... 50 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>start-up ramp time of soft starter</b>               | 0 ... 20 s                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>ramp-down time of soft starter</b>                   | 0 ... 20 s                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>current limiting value [%] adjustable</b>            | 130 ... 700 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>accuracy class acc. to IEC 61557-12</b>              | 5 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>certificate of suitability</b>                       | <ul style="list-style-type: none"> <li>• CE marking</li> <li>• UL approval</li> <li>• CSA approval</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>product component</b>                                | <ul style="list-style-type: none"> <li>• HMI-High Feature</li> <li>• is supported HMI-Standard</li> <li>• is supported HMI-High Feature</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>product feature integrated bypass contact system</b> | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>number of controlled phases</b>                      | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

[3RW5980-0HS01](#)

[3RW5980-0HF00](#)

[3RW5980-0CS00](#)

[3RW5980-0CP00](#)

[3RW5980-0CT00](#)

[3RW5980-0CR00](#)

[3RW5980-0CE00](#)

[3VA2580-6HN32-0AA0: Type of assignment 1, Iq = 65 kA](#)

[3VA2580-6HN32-0AA0: Type of assignment 1, Iq = 65 kA](#)

[2x3NA3365-6; Type of coordination 1, Iq = 65 kA](#)

[3NE1 436-2; Type of coordination 2, Iq = 65 kA](#)

[3NE3 340-8; Type of coordination 2, Iq = 65 kA](#)

[3RT1076](#)

[3RT1076](#)

|                                                               |                                                                                 |
|---------------------------------------------------------------|---------------------------------------------------------------------------------|
| <b>trip class</b>                                             | CLASS 10A / 10E (preset) / 20E; acc. to IEC 60947-4-2                           |
| <b>buffering time in the event of power failure</b>           |                                                                                 |
| • for main current circuit                                    | 100 ms                                                                          |
| • for control circuit                                         | 100 ms                                                                          |
| insulation voltage rated value                                | 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 safe isolation</b>         |                                                                                 |
| • between main and auxiliary circuit                          | 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 acc. to IEC 60947-4-2                    | AC-53a                                                                          |
| <b>reference code acc. to IEC 81346-2</b>                     | Q                                                                               |
| <b>Substance Prohibitance (Date)</b>                          | 23.09.2019                                                                      |
| <b>product function</b>                                       |                                                                                 |
| • ramp-up (soft starting)                                     | Yes                                                                             |
| • ramp-down (soft stop)                                       | Yes                                                                             |
| • Soft Torque                                                 | Yes                                                                             |
| • adjustable current limitation                               | Yes                                                                             |
| • pump ramp down                                              | Yes                                                                             |
| • intrinsic device protection                                 | Yes                                                                             |
| • motor overload protection                                   | Yes; Electronic motor overload protection                                       |
| • evaluation of thermistor motor protection                   | No                                                                              |
| • auto-RESET                                                  | Yes                                                                             |
| • manual RESET                                                | Yes                                                                             |
| • remote reset                                                | Yes; By turning off the control supply voltage                                  |
| • communication function                                      | Yes                                                                             |
| • operating measured value display                            | Yes; Only in conjunction with special accessories                               |
| • error logbook                                               | Yes; Only in conjunction with special accessories                               |
| • via software parameterizable                                | No                                                                              |
| • via software configurable                                   | Yes                                                                             |
| • <b>PROFenergy</b>                                           | Yes; in connection with the PROFINET Standard communication module              |
| • voltage ramp                                                | Yes                                                                             |
| • torque control                                              | No                                                                              |
| • analog output                                               | Yes; 4 ... 20 mA (default) / 0 ... 10 V (parameterizable with High Feature HMI) |
| <b>Power Electronics</b>                                      |                                                                                 |
| <b>operational current</b>                                    |                                                                                 |
| • at 40 °C rated value                                        | 470 A                                                                           |
| • at 50 °C rated value                                        | 416 A                                                                           |
| • at 60 °C rated value                                        | 380 A                                                                           |
| <b>operating voltage</b>                                      |                                                                                 |
| • rated value                                                 | 200 ... 600 V                                                                   |
| <b>relative negative tolerance of the operating voltage</b>   | -15 %                                                                           |
| <b>relative positive tolerance of the operating voltage</b>   | 10 %                                                                            |
| <b>operating power for 3-phase motors</b>                     |                                                                                 |
| • at 230 V at 40 °C rated value                               | 132 kW                                                                          |
| • at 400 V at 40 °C rated value                               | 250 kW                                                                          |
| • at 500 V at 40 °C rated value                               | 315 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                | 200 A                                                                           |
| • at rotary coding switch on switch position 2                | 218 A                                                                           |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• at rotary coding switch on switch position 3</li> <li>• at rotary coding switch on switch position 4</li> <li>• at rotary coding switch on switch position 5</li> <li>• at rotary coding switch on switch position 6</li> <li>• at rotary coding switch on switch position 7</li> <li>• at rotary coding switch on switch position 8</li> <li>• at rotary coding switch on switch position 9</li> <li>• at rotary coding switch on switch position 10</li> <li>• at rotary coding switch on switch position 11</li> <li>• at rotary coding switch on switch position 12</li> <li>• at rotary coding switch on switch position 13</li> <li>• at rotary coding switch on switch position 14</li> <li>• at rotary coding switch on switch position 15</li> <li>• at rotary coding switch on switch position 16</li> <li>• minimum</li> </ul> | 236 A<br>254 A<br>272 A<br>290 A<br>308 A<br>326 A<br>344 A<br>362 A<br>380 A<br>398 A<br>416 A<br>434 A<br>452 A<br>470 A<br>200 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> <ul style="list-style-type: none"> <li>• at 40 °C after startup</li> <li>• at 50 °C after startup</li> <li>• at 60 °C after startup</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 56 W<br>44 W<br>37 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>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 5 344 W<br>4 438 W<br>3 876 W                                                                                                                                                                                                      |
| <b>type of the motor protection</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Electronic, tripping in the event of thermal overload of the motor                                                                                                                                                                 |
| <b>Control circuit/ Control</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                    |
| <b>type of voltage of the control supply voltage</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | AC                                                                                                                                                                                                                                 |
| <b>control supply voltage at AC</b> <ul style="list-style-type: none"> <li>• at 50 Hz</li> <li>• at 60 Hz</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 110 ... 250 V<br>110 ... 250 V                                                                                                                                                                                                     |
| <b>relative negative tolerance of the control supply voltage at AC at 50 Hz</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -15 %                                                                                                                                                                                                                              |
| <b>relative positive tolerance of the control supply voltage at AC at 50 Hz</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 10 %                                                                                                                                                                                                                               |
| <b>relative negative tolerance of the control supply voltage at AC at 60 Hz</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -15 %                                                                                                                                                                                                                              |
| <b>relative positive tolerance of the control supply voltage at AC at 60 Hz</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 10 %                                                                                                                                                                                                                               |
| <b>control supply voltage frequency</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 50 ... 60 Hz                                                                                                                                                                                                                       |
| <b>relative negative tolerance of the control supply voltage frequency</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -10 %                                                                                                                                                                                                                              |
| <b>relative positive tolerance of the control supply voltage frequency</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 10 %                                                                                                                                                                                                                               |
| <b>control supply current in standby mode rated value</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 30 mA                                                                                                                                                                                                                              |
| <b>holding current in bypass operation rated value</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 105 mA                                                                                                                                                                                                                             |
| <b>locked-rotor current at close of bypass contact maximum</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2.2 A                                                                                                                                                                                                                              |
| <b>inrush current peak at application of control supply voltage maximum</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 12.2 A                                                                                                                                                                                                                             |
| <b>duration of inrush current peak at application of control supply voltage</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2.2 ms                                                                                                                                                                                                                             |
| <b>design of the overvoltage protection</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Varistor                                                                                                                                                                                                                           |
| <b>design of short-circuit protection for control circuit</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 4 A gG fuse (I <sub>cu</sub> =1 kA), 6 A quick-acting fuse (I <sub>cu</sub> =1 kA), C1 miniature circuit breaker (I <sub>cu</sub> = 600 A), C6 miniature circuit breaker (I <sub>cu</sub> = 300 A); Is not part of scope of supply |
| <b>Inputs/ Outputs</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                    |
| <b>number of digital inputs</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1                                                                                                                                                                                                                                  |
| <b>number of digital outputs</b> <ul style="list-style-type: none"> <li>• not parameterizable</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 3<br>2                                                                                                                                                                                                                             |
| <b>digital output version</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2 normally-open contacts (NO) / 1 changeover contact (CO)                                                                                                                                                                          |
| <b>number of analog outputs</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1                                                                                                                                                                                                                                  |
| <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>                                                                                                                                          | with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back |
| <b>fastening method</b>                                                                                                                                           | screw fixing                                                                                                             |
| <b>height</b>                                                                                                                                                     | 230 mm                                                                                                                   |
| <b>width</b>                                                                                                                                                      | 160 mm                                                                                                                   |
| <b>depth</b>                                                                                                                                                      | 282 mm                                                                                                                   |
| required spacing with side-by-side mounting                                                                                                                       |                                                                                                                          |
| <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>                                                                                                                                   | 7.3 kg                                                                                                                   |
| <b>Connections/ Terminals</b>                                                                                                                                     |                                                                                                                          |
| <b>type of electrical connection</b>                                                                                                                              |                                                                                                                          |
| <ul style="list-style-type: none"> <li>• for main current circuit</li> <li>• for control circuit</li> </ul>                                                       | busbar connection<br>screw-type terminals                                                                                |
| <b>width of connection bar maximum</b>                                                                                                                            | 35 mm                                                                                                                    |
| <b>type of connectable conductor cross-sections</b>                                                                                                               |                                                                                                                          |
| <ul style="list-style-type: none"> <li>• for main contacts for box terminal using the front clamping point solid</li> </ul>                                       | 95 ... 300 mm²                                                                                                           |
| <ul style="list-style-type: none"> <li>• for main contacts for box terminal using the front clamping point finely stranded with core end processing</li> </ul>    | 70 ... 240 mm²                                                                                                           |
| <ul style="list-style-type: none"> <li>• for main contacts for box terminal using the front clamping point finely stranded without core end processing</li> </ul> | 70 ... 240 mm²                                                                                                           |
| <ul style="list-style-type: none"> <li>• for main contacts for box terminal using the front clamping point stranded</li> </ul>                                    | 95 ... 300 mm²                                                                                                           |
| <ul style="list-style-type: none"> <li>• at AWG cables for main contacts for box terminal using the front clamping point</li> </ul>                               | 3/0 ... 600 kcmil                                                                                                        |
| <ul style="list-style-type: none"> <li>• for main contacts for box terminal using the back clamping point solid</li> </ul>                                        | 120 ... 240 mm²                                                                                                          |
| <ul style="list-style-type: none"> <li>• at AWG cables for main contacts for box terminal using the back clamping point</li> </ul>                                | 250 ... 500 kcmil                                                                                                        |
| <ul style="list-style-type: none"> <li>• for main contacts for box terminal using both clamping points solid</li> </ul>                                           | min. 2x 70 mm², max. 2x 240 mm²                                                                                          |
| <ul style="list-style-type: none"> <li>• for main contacts for box terminal using both clamping points finely stranded with core end processing</li> </ul>        | min. 2x 50 mm², max. 2x 185 mm²                                                                                          |
| <ul style="list-style-type: none"> <li>• for main contacts for box terminal using both clamping points finely stranded without core end processing</li> </ul>     | min. 2x 50 mm², max. 2x 185 mm²                                                                                          |
| <ul style="list-style-type: none"> <li>• for main contacts for box terminal using both clamping points stranded</li> </ul>                                        | min. 2x 70 mm², max. 2x 240 mm²                                                                                          |
| <ul style="list-style-type: none"> <li>• for main contacts for box terminal using the back clamping point finely stranded with core end processing</li> </ul>     | 120 ... 185 mm²                                                                                                          |
| <ul style="list-style-type: none"> <li>• for main contacts for box terminal using the back clamping point finely stranded without core end processing</li> </ul>  | 120 ... 185 mm²                                                                                                          |
| <ul style="list-style-type: none"> <li>• for main contacts for box terminal using the back clamping point stranded</li> </ul>                                     | 120 ... 240 mm²                                                                                                          |
| <b>type of connectable conductor cross-sections</b>                                                                                                               |                                                                                                                          |
| <ul style="list-style-type: none"> <li>• at AWG cables for main current circuit solid</li> </ul>                                                                  | 2/0 ... 500 kcmil                                                                                                        |
| <ul style="list-style-type: none"> <li>• for DIN cable lug for main contacts stranded</li> </ul>                                                                  | 50 ... 240 mm²                                                                                                           |
| <ul style="list-style-type: none"> <li>• for DIN cable lug for main contacts finely stranded</li> </ul>                                                           | 70 ... 240 mm²                                                                                                           |
| <b>type of connectable conductor cross-sections</b>                                                                                                               |                                                                                                                          |
| <ul style="list-style-type: none"> <li>• for control circuit solid</li> </ul>                                                                                     | 1x (0.5 ... 4.0 mm²), 2x (0.5 ... 2.5 mm²)                                                                               |
| <ul style="list-style-type: none"> <li>• for control circuit finely stranded with core end processing</li> </ul>                                                  | 1x (0.5 ... 2.5 mm²), 2x (0.5 ... 1.5 mm²)                                                                               |
| <ul style="list-style-type: none"> <li>• at AWG cables for control circuit solid</li> </ul>                                                                       | 1x (20 ... 12), 2x (20 ... 14)                                                                                           |

|                                                                                            |                                                                                                                         |
|--------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| <b>wire length</b>                                                                         |                                                                                                                         |
| • between soft starter and motor maximum                                                   | 800 m                                                                                                                   |
| • at the digital inputs at AC maximum                                                      | 1 000 m                                                                                                                 |
| <b>tightening torque</b>                                                                   |                                                                                                                         |
| • for main contacts with screw-type terminals                                              | 14 ... 24 N·m                                                                                                           |
| • for auxiliary and control contacts with screw-type terminals                             | 0.8 ... 1.2 N·m                                                                                                         |
| <b>tightening torque [lbf·in]</b>                                                          |                                                                                                                         |
| • for main contacts with screw-type terminals                                              | 124 ... 210 lbf·in                                                                                                      |
| • for auxiliary and control contacts with screw-type terminals                             | 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 Manual                                                                              |
| <b>ambient temperature</b>                                                                 |                                                                                                                         |
| • during operation                                                                         | -25 ... +60 °C; Please observe derating at temperatures of 40 °C or above                                               |
| • during storage and transport                                                             | -40 ... +80 °C                                                                                                          |
| <b>environmental category</b>                                                              |                                                                                                                         |
| • during operation acc. to IEC 60721                                                       | 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 |
| • during storage acc. to IEC 60721                                                         | 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4                 |
| • during transport acc. to IEC 60721                                                       | 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)                                                                             |
| <b>EMC emitted interference</b>                                                            | acc. to IEC 60947-4-2: Class A                                                                                          |
| <b>Communication/ Protocol</b>                                                             |                                                                                                                         |
| <b>communication module is supported</b>                                                   |                                                                                                                         |
| • PROFINET standard                                                                        | Yes                                                                                                                     |
| • EtherNet/IP                                                                              | Yes                                                                                                                     |
| • Modbus RTU                                                                               | Yes                                                                                                                     |
| • Modbus TCP                                                                               | Yes                                                                                                                     |
| • PROFIBUS                                                                                 | Yes                                                                                                                     |
| <b>UL/CSA ratings</b>                                                                      |                                                                                                                         |
| <b>manufacturer's article number</b>                                                       |                                                                                                                         |
| • of the fuse                                                                              |                                                                                                                         |
| — usable for Standard Faults up to 575/600 V according to UL                               | Type: Class L, max. 1600 A; Iq = 30 kA                                                                                  |
| — usable for High Faults up to 575/600 V according to UL                                   | Type: Class L, max. 1200 A; Iq = 100 kA                                                                                 |
| <b>operating power [hp] for 3-phase motors</b>                                             |                                                                                                                         |
| • at 200/208 V at 50 °C rated value                                                        | 150 hp                                                                                                                  |
| • at 220/230 V at 50 °C rated value                                                        | 150 hp                                                                                                                  |
| • at 460/480 V at 50 °C rated value                                                        | 350 hp                                                                                                                  |
| • at 575/600 V at 50 °C rated value                                                        | 450 hp                                                                                                                  |
| <b>Safety related data</b>                                                                 |                                                                                                                         |
| <b>protection class IP on the front acc. to IEC 60529</b>                                  | IP00; IP20 with cover                                                                                                   |
| <b>touch protection on the front acc. to IEC 60529</b>                                     | finger-safe, for vertical contact from the front with cover                                                             |
| <b>ATEX</b>                                                                                |                                                                                                                         |
| <b>certificate of suitability</b>                                                          |                                                                                                                         |
| • ATEX                                                                                     | Yes                                                                                                                     |
| • IECEx                                                                                    | Yes                                                                                                                     |
| <b>hardware fault tolerance acc. to IEC 61508 relating to ATEX</b>                         | 0                                                                                                                       |
| <b>PFDAvg with low demand rate acc. to IEC 61508 relating to ATEX</b>                      | 0.09                                                                                                                    |
| <b>PFHD with high demand rate acc. to EN 62061 relating to ATEX</b>                        | 0.000009 1/h                                                                                                            |
| <b>Safety Integrity Level (SIL) acc. to IEC 61508 relating to ATEX</b>                     | SIL1                                                                                                                    |
| <b>T1 value for proof test interval or service life acc. to IEC 61508 relating to ATEX</b> | 3 y                                                                                                                     |
| <b>Certificates/ approvals</b>                                                             |                                                                                                                         |
| <b>General Product Approval</b>                                                            | <b>For use in hazardous locations</b>                                                                                   |



Declaration of  
Conformity

Test Certificates

Marine / Shipping

other



[Type Test Certificates/Test Report](#)



[Confirmation](#)

## Further information

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=3RW5076-6AB15>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5076-6AB15>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RW5076-6AB15>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RW5076-6AB15&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5076-6AB15&lang=en)

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

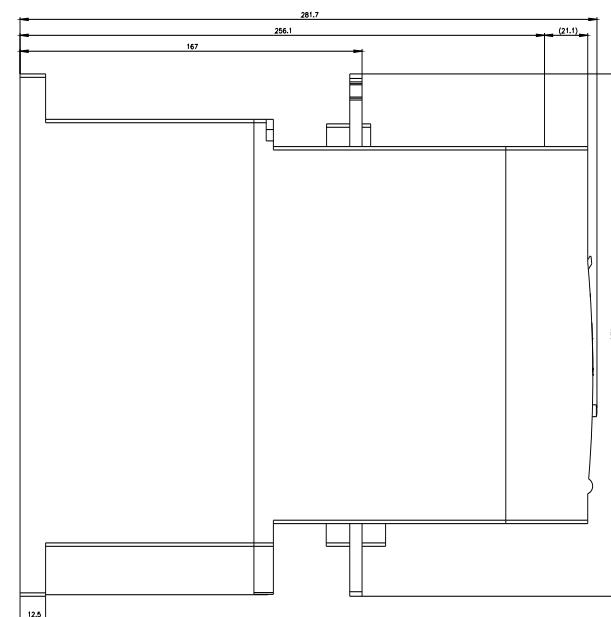
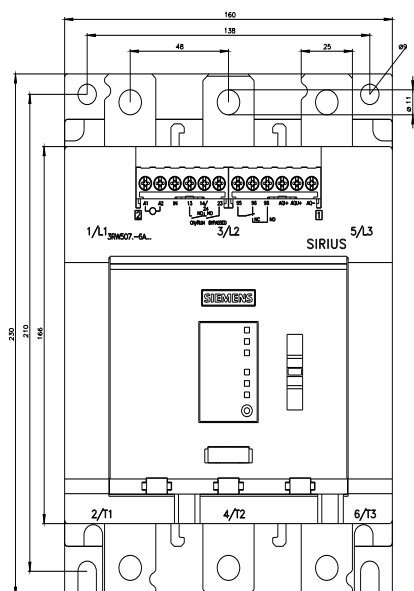
<https://support.industry.siemens.com/cs/ww/en/ps/3RW5076-6AB15/char>

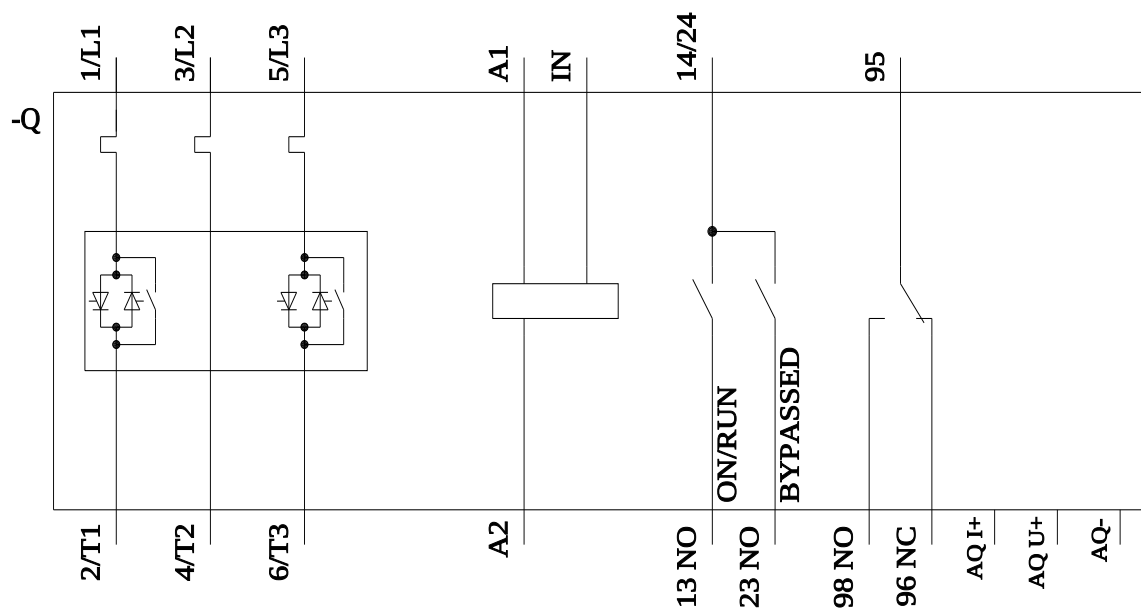
Characteristic: Installation altitude

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5076-6AB15&objecttype=14&gridview=view1>

Simulation Tool for Soft Starters (STS)

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





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