



SIRIUS soft starter 200-600 V 32 A, 110-250 V AC spring-type terminals

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| product brand name                    | SIRIUS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| product category                      | Hybrid switching devices                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| product designation                   | Soft starter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| product type designation              | 3RW55                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| manufacturer's article number         | <ul style="list-style-type: none"> <li>of high feature HMI module usable <a href="#">3RW5980-0HF00</a></li> <li>of communication module PROFINET standard usable <a href="#">3RW5980-0CS00</a></li> <li>of communication module PROFINET high-feature usable <a href="#">3RW5950-0CH00</a></li> <li>of communication module PROFIBUS usable <a href="#">3RW5980-0CP00</a></li> <li>of communication module Modbus TCP usable <a href="#">3RW5980-0CT00</a></li> <li>of communication module Modbus RTU usable <a href="#">3RW5980-0CR00</a></li> <li>of communication module Ethernet/IP <a href="#">3RW5980-0CE00</a></li> <li>of circuit breaker usable at 400 V <a href="#">3RV2032-4VA10; Type of coordination 1, Iq = 65 kA, CLASS 10</a></li> <li>of circuit breaker usable at 500 V <a href="#">3RV2032-4VA10; Type of coordination 1, Iq = 10 kA, CLASS 10</a></li> <li>of circuit breaker usable at 400 V at inside-delta circuit <a href="#">3RV2032-4JA10; Type of coordination 1, Iq = 65 kA, CLASS 10</a></li> <li>of circuit breaker usable at 500 V at inside-delta circuit <a href="#">3RV2032-4JA10; Type of coordination 1, Iq = 10 kA, CLASS 10</a></li> <li>of the gG fuse usable up to 690 V <a href="#">3NA3824-6; Type of coordination 1, Iq = 65 kA</a></li> <li>of the gG fuse usable at inside-delta circuit up to 500 V <a href="#">3NA3824-6; Type of coordination 1, Iq = 65 kA</a></li> <li>of full range R fuse link for semiconductor protection usable up to 690 V <a href="#">3NE1818-0; Type of coordination 2, Iq = 65 kA</a></li> <li>of back-up R fuse link for semiconductor protection usable up to 690 V <a href="#">3NE8022-1; Type of coordination 2, Iq = 65 kA</a></li> </ul> |
| <b>General technical data</b>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| starting voltage [%]                  | 20 ... 100 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| stopping voltage [%]                  | 50 %; non-adjustable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| start-up ramp time of soft starter    | 0 ... 360 s                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| ramp-down time of soft starter        | 0 ... 360 s                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| start torque [%]                      | 10 ... 100 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| stopping torque [%]                   | 10 ... 100 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| torque limitation [%]                 | 20 ... 200 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| current limiting value [%] adjustable | 125 ... 800 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| breakaway voltage [%] adjustable      | 40 ... 100 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| breakaway time adjustable             | 0 ... 2 s                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| number of parameter sets              | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| accuracy class                        | 5 (based on IEC 61557-12)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| certificate of suitability            | <ul style="list-style-type: none"> <li>CE marking Yes</li> <li>UL approval Yes</li> <li>CSA approval Yes</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| product component                     | <ul style="list-style-type: none"> <li>HMI-High Feature Yes</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

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|--------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| • is supported HMI-High Feature                              | Yes                                                                                                                                                                                                                        |
| <b>product feature integrated bypass contact system</b>      | Yes                                                                                                                                                                                                                        |
| <b>number of controlled phases</b>                           | 3                                                                                                                                                                                                                          |
| <b>trip class</b>                                            | CLASS 10A / 10E (default) / 20E / 30E; acc. to IEC 60947-4-2                                                                                                                                                               |
| <b>current unbalance limiting value [%]</b>                  | 10 ... 60 %                                                                                                                                                                                                                |
| <b>ground-fault monitoring limiting value [%]</b>            | 10 ... 95 %                                                                                                                                                                                                                |
| <b>buffering time in the event of power failure</b>          |                                                                                                                                                                                                                            |
| • for main current circuit                                   | 100 ms                                                                                                                                                                                                                     |
| • for control circuit                                        | 100 ms                                                                                                                                                                                                                     |
| <b>idle time adjustable</b>                                  | 0 ... 255 s                                                                                                                                                                                                                |
| <b>insulation voltage rated value</b>                        | 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>                                        | 1.15                                                                                                                                                                                                                       |
| <b>surge voltage resistance rated value</b>                  | 6 kV                                                                                                                                                                                                                       |
| <b>maximum permissible voltage for protective separation</b> |                                                                                                                                                                                                                            |
| • between main and auxiliary circuit                         | 600 V; does not apply for thermistor connection                                                                                                                                                                            |
| <b>shock resistance</b>                                      | 15 g / 11 ms, from 6 g / 11 ms with potential contact lifting                                                                                                                                                              |
| <b>vibration resistance</b>                                  | 15 mm up to 6 Hz; 2 g up to 500 Hz                                                                                                                                                                                         |
| <b>recovery time after overload trip adjustable</b>          | 60 ... 1 800 s                                                                                                                                                                                                             |
| utilization category according to IEC 60947-4-2              | AC 53a                                                                                                                                                                                                                     |
| <b>reference code according to IEC 81346-2</b>               | Q                                                                                                                                                                                                                          |
| <b>Substance Prohibitance (Date)</b>                         | 02/15/2018                                                                                                                                                                                                                 |
| <b>product function</b>                                      |                                                                                                                                                                                                                            |
| • ramp-up (soft starting)                                    | Yes                                                                                                                                                                                                                        |
| • ramp-down (soft stop)                                      | Yes                                                                                                                                                                                                                        |
| • breakaway pulse                                            | Yes                                                                                                                                                                                                                        |
| • adjustable current limitation                              | Yes                                                                                                                                                                                                                        |
| • creep speed in both directions of rotation                 | Yes                                                                                                                                                                                                                        |
| • pump ramp down                                             | Yes                                                                                                                                                                                                                        |
| • DC braking                                                 | Yes                                                                                                                                                                                                                        |
| • motor heating                                              | Yes                                                                                                                                                                                                                        |
| • slave pointer function                                     | Yes                                                                                                                                                                                                                        |
| • trace function                                             | Yes                                                                                                                                                                                                                        |
| • intrinsic device protection                                | Yes                                                                                                                                                                                                                        |
| • motor overload protection                                  | Yes; Full motor protection (thermistor motor protection and electronic motor overload protection) / When using the motor overload protection according to ATEX, an upstream contactor is required in inside-delta circuit. |
| • evaluation of thermistor motor protection                  | Yes; Type A PTC or Klaxon / Thermoclick                                                                                                                                                                                    |
| • inside-delta circuit                                       | Yes                                                                                                                                                                                                                        |
| • auto-RESET                                                 | Yes                                                                                                                                                                                                                        |
| • manual RESET                                               | Yes                                                                                                                                                                                                                        |
| • remote reset                                               | Yes                                                                                                                                                                                                                        |
| • communication function                                     | Yes                                                                                                                                                                                                                        |
| • operating measured value display                           | Yes                                                                                                                                                                                                                        |
| • event list                                                 | Yes                                                                                                                                                                                                                        |
| • error logbook                                              | Yes                                                                                                                                                                                                                        |
| • via software parameterizable                               | Yes                                                                                                                                                                                                                        |
| • via software configurable                                  | Yes                                                                                                                                                                                                                        |
| • screw terminal                                             | No                                                                                                                                                                                                                         |
| • spring-loaded terminal                                     | Yes                                                                                                                                                                                                                        |
| • <b>PROFInergy</b>                                          | Yes; in connection with the PROFINET Standard and PROFINET High-Feature communication modules                                                                                                                              |
| • <b>firmware update</b>                                     | Yes                                                                                                                                                                                                                        |
| • <b>removable terminal for control circuit</b>              | Yes                                                                                                                                                                                                                        |
| • voltage ramp                                               | Yes                                                                                                                                                                                                                        |
| • torque control                                             | Yes                                                                                                                                                                                                                        |
| • combined braking                                           | Yes                                                                                                                                                                                                                        |
| • analog output                                              | Yes; 4 ... 20 mA (default) / 0 ... 10 V                                                                                                                                                                                    |
| • programmable control inputs/outputs                        | Yes                                                                                                                                                                                                                        |
| • condition monitoring                                       | Yes                                                                                                                                                                                                                        |

|                                              |     |
|----------------------------------------------|-----|
| • automatic parameterisation                 | Yes |
| • application wizards                        | Yes |
| • alternative run-down                       | Yes |
| • emergency operation mode                   | Yes |
| • reversing operation                        | Yes |
| • soft starting at heavy starting conditions | Yes |

#### Power Electronics

|                                                                                     |                                                                    |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| <b>operational current</b>                                                          |                                                                    |
| • at 40 °C rated value                                                              | 32 A                                                               |
| • at 40 °C rated value minimum                                                      | 6.5 A                                                              |
| • at 50 °C rated value                                                              | 28.4 A                                                             |
| • at 60 °C rated value                                                              | 26 A                                                               |
| <b>operational current at inside-delta circuit</b>                                  |                                                                    |
| • at 40 °C rated value                                                              | 55.4 A                                                             |
| • at 50 °C rated value                                                              | 49 A                                                               |
| • at 60 °C rated value                                                              | 45 A                                                               |
| <b>operating voltage</b>                                                            |                                                                    |
| • rated value                                                                       | 200 ... 600 V                                                      |
| • at inside-delta circuit 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>relative negative tolerance of the operating voltage at inside-delta circuit</b> | -15 %                                                              |
| <b>relative positive tolerance of the operating voltage at inside-delta circuit</b> | 10 %                                                               |
| <b>operating power for 3-phase motors</b>                                           |                                                                    |
| • at 230 V at 40 °C rated value                                                     | 7.5 kW                                                             |
| • at 230 V at inside-delta circuit at 40 °C rated value                             | 15 kW                                                              |
| • at 400 V at 40 °C rated value                                                     | 15 kW                                                              |
| • at 400 V at inside-delta circuit at 40 °C rated value                             | 22 kW                                                              |
| • at 500 V at 40 °C rated value                                                     | 18.5 kW                                                            |
| • at 500 V at inside-delta circuit at 40 °C rated value                             | 30 kW                                                              |
| <b>Operating frequency 1 rated value</b>                                            | 50 Hz                                                              |
| <b>Operating frequency 2 rated value</b>                                            | 60 Hz                                                              |
| <b>relative negative tolerance of the operating frequency</b>                       | -10 %                                                              |
| <b>relative positive tolerance of the operating frequency</b>                       | 10 %                                                               |
| <b>minimum load [%]</b>                                                             | 10 %; Relative to set I <sub>e</sub>                               |
| <b>power loss [W] for rated value of the current at AC</b>                          |                                                                    |
| • at 40 °C after startup                                                            | 10 W                                                               |
| • at 50 °C after startup                                                            | 9 W                                                                |
| • at 60 °C after startup                                                            | 8 W                                                                |
| <b>power loss [W] at AC at current limitation 350 %</b>                             |                                                                    |
| • at 40 °C during startup                                                           | 519 W                                                              |
| • at 50 °C during startup                                                           | 437 W                                                              |
| • at 60 °C during startup                                                           | 386 W                                                              |
| <b>type of the motor protection</b>                                                 | Electronic, tripping in the event of thermal overload of the motor |

#### Control circuit/ Control

|                                                                                 |               |
|---------------------------------------------------------------------------------|---------------|
| <b>type of voltage of the control supply voltage</b>                            | AC            |
| <b>control supply voltage at AC</b>                                             |               |
| • at 50 Hz                                                                      | 110 ... 250 V |
| • at 60 Hz                                                                      | 110 ... 250 V |
| <b>relative negative tolerance of the control supply voltage at AC at 50 Hz</b> | -15 %         |
| <b>relative positive tolerance of the control supply voltage at AC at 50 Hz</b> | 10 %          |
| <b>relative negative tolerance of the control supply voltage at AC at 60 Hz</b> | -15 %         |
| <b>relative positive tolerance of the control supply voltage at AC at 60 Hz</b> | 10 %          |
| <b>control supply voltage frequency</b>                                         | 50 ... 60 Hz  |
| <b>relative negative tolerance of the control supply voltage frequency</b>      | -10 %         |
| <b>relative positive tolerance of the control supply voltage</b>                | 10 %          |

|                                                                               |                                                                                                                                                                                                                                    |
|-------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>frequency</b>                                                              |                                                                                                                                                                                                                                    |
| <b>control supply current in standby mode rated value</b>                     | 100 mA                                                                                                                                                                                                                             |
| <b>holding current in bypass operation rated value</b>                        | 165 mA                                                                                                                                                                                                                             |
| <b>inrush current by closing the bypass contacts maximum</b>                  | 0.2 A                                                                                                                                                                                                                              |
| inrush current peak at application of control supply voltage maximum          | 43 A                                                                                                                                                                                                                               |
| duration of inrush current peak at application of control supply voltage      | 1.6 ms                                                                                                                                                                                                                             |
| <b>design of the overvoltage protection</b>                                   | Varistor                                                                                                                                                                                                                           |
| <b>design of short-circuit protection for control circuit</b>                 | 4 A gG fuse (I <sub>cu</sub> =1 kA), 6 A quick-acting fuse (I <sub>cu</sub> =1 kA), C1 miniature circuit breaker (I <sub>cu</sub> = 600 A), C6 miniature circuit breaker (I <sub>cu</sub> = 300 A); Is not part of scope of supply |
| <b>Inputs/ Outputs</b>                                                        |                                                                                                                                                                                                                                    |
| <b>number of digital inputs</b>                                               | 4                                                                                                                                                                                                                                  |
| • parameterizable                                                             | 4                                                                                                                                                                                                                                  |
| • <b>number of digital outputs</b>                                            | 4                                                                                                                                                                                                                                  |
| • number of digital outputs parameterizable                                   | 3                                                                                                                                                                                                                                  |
| • number of digital outputs not parameterizable                               | 1                                                                                                                                                                                                                                  |
| <b>digital output version</b>                                                 | 3 normally-open contacts (NO) / 1 changeover contact (CO)                                                                                                                                                                          |
| <b>number of analog outputs</b>                                               | 1                                                                                                                                                                                                                                  |
| <b>switching capacity current of the relay outputs</b>                        |                                                                                                                                                                                                                                    |
| • at AC-15 at 250 V rated value                                               | 3 A                                                                                                                                                                                                                                |
| • at DC-13 at 24 V rated value                                                | 1 A                                                                                                                                                                                                                                |
| <b>Installation/ mounting/ dimensions</b>                                     |                                                                                                                                                                                                                                    |
| <b>mounting position</b>                                                      | Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°)                                                                                                                                                         |
| <b>fastening method</b>                                                       | screw fixing                                                                                                                                                                                                                       |
| <b>height</b>                                                                 | 275 mm                                                                                                                                                                                                                             |
| <b>width</b>                                                                  | 170 mm                                                                                                                                                                                                                             |
| <b>depth</b>                                                                  | 152 mm                                                                                                                                                                                                                             |
| required spacing with side-by-side mounting                                   |                                                                                                                                                                                                                                    |
| • forwards                                                                    | 10 mm                                                                                                                                                                                                                              |
| • backwards                                                                   | 0 mm                                                                                                                                                                                                                               |
| • upwards                                                                     | 100 mm                                                                                                                                                                                                                             |
| • downwards                                                                   | 75 mm                                                                                                                                                                                                                              |
| • at the side                                                                 | 5 mm                                                                                                                                                                                                                               |
| <b>weight without packaging</b>                                               | 2.6 kg                                                                                                                                                                                                                             |
| <b>Connections/ Terminals</b>                                                 |                                                                                                                                                                                                                                    |
| <b>type of electrical connection</b>                                          |                                                                                                                                                                                                                                    |
| • for main current circuit                                                    | screw-type terminals                                                                                                                                                                                                               |
| • for control circuit                                                         | spring-loaded terminals                                                                                                                                                                                                            |
| <b>wire length for thermistor connection</b>                                  |                                                                                                                                                                                                                                    |
| • with conductor cross-section = 0.5 mm <sup>2</sup> maximum                  | 50 m                                                                                                                                                                                                                               |
| • with conductor cross-section = 1.5 mm <sup>2</sup> maximum                  | 150 m                                                                                                                                                                                                                              |
| • with conductor cross-section = 2.5 mm <sup>2</sup> maximum                  | 250 m                                                                                                                                                                                                                              |
| <b>type of connectable conductor cross-sections</b>                           |                                                                                                                                                                                                                                    |
| • for main contacts                                                           |                                                                                                                                                                                                                                    |
| — solid                                                                       | 2x (1.0 ... 2.5 mm <sup>2</sup> ), 2x (2.5 ... 10 mm <sup>2</sup> )                                                                                                                                                                |
| — finely stranded with core end processing                                    | 2x (1.0 ... 2.5 mm <sup>2</sup> ), 2x (2.5 ... 6.0 mm <sup>2</sup> )                                                                                                                                                               |
| • for AWG cables for main current circuit solid                               | 2x (16 ... 12), 2x (14 ... 8)                                                                                                                                                                                                      |
| <b>type of connectable conductor cross-sections</b>                           |                                                                                                                                                                                                                                    |
| • for control circuit solid                                                   | 2x (0.25 ... 1.5 mm <sup>2</sup> )                                                                                                                                                                                                 |
| • for control circuit finely stranded with core end processing                | 2x (0.25 ... 1.5 mm <sup>2</sup> )                                                                                                                                                                                                 |
| • for AWG cables for control circuit solid                                    | 2x (24 ... 16)                                                                                                                                                                                                                     |
| • for AWG cables for control circuit finely stranded with core end processing | 2x (24 ... 16)                                                                                                                                                                                                                     |
| <b>wire length</b>                                                            |                                                                                                                                                                                                                                    |
| • between soft starter and motor maximum                                      | 800 m                                                                                                                                                                                                                              |
| • at the digital inputs at DC maximum                                         | 1 000 m                                                                                                                                                                                                                            |
| <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>                                                    |                                                                                                                                                                                                                                    |

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| <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>-25 ... +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>EMC emitted interference</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | acc. to IEC 60947-4-2: Class A, Class B on request                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Communication/ Protocol</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>communication module is supported</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <ul style="list-style-type: none"> <li>PROFINET standard</li> <li>PROFINET high-feature</li> <li>EtherNet/IP</li> <li>Modbus RTU</li> <li>Modbus TCP</li> <li>PROFIBUS</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Yes<br>No<br>No<br>No<br>Yes<br>Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>UL/CSA ratings</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>manufacturer's article number</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <ul style="list-style-type: none"> <li><b>of circuit breaker</b> <ul style="list-style-type: none"> <li>— usable for Standard Faults at 460/480 V according to UL</li> <li>— usable for High Faults at 460/480 V according to UL</li> <li>— usable for Standard Faults at 460/480 V at inside-delta circuit according to UL</li> <li>— usable for High Faults at 460/480 V at inside-delta circuit according to UL</li> <li>— usable for Standard Faults at 575/600 V according to UL</li> <li>— usable for High Faults at 575/600 V at inside-delta circuit according to UL</li> <li>— usable for Standard Faults at 575/600 V at inside-delta circuit according to UL</li> </ul> </li> <li><b>of the fuse</b> <ul style="list-style-type: none"> <li>— usable for Standard Faults up to 575/600 V according to UL</li> <li>— usable for High Faults up to 575/600 V according to UL</li> <li>— usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>— usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> </ul> </li> </ul> | Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; Iq = 5 kA<br>Siemens type: 3RV2742, max. 40 A or 3VA51, max. 60 A; Iq max = 65 kA<br>Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; Iq = 5 kA<br>Siemens type: 3VA51, max. 60 A; Iq max = 65 kA<br>Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; Iq = 5 kA<br>Siemens type: 3VA51, max. 60 A; Iq max = 65 kA<br>Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; Iq = 5 kA<br>Type: Class RK5 / K5, max. 125 A; Iq = 5 kA<br>Type: Class J / L, max. 125 A; Iq = 100 kA<br>Type: Class RK5 / K5, max. 125 A; Iq = 5 kA<br>Type: Class J / L, max. 125 A; Iq = 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>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 7.5 hp<br>10 hp<br>20 hp<br>25 hp<br>15 hp<br>15 hp<br>30 hp<br>40 hp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>contact rating of auxiliary contacts according to UL</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | R300-B300                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Safety related data</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>protection class IP on the front according to IEC 60529</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | IP20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>touch protection on the front according to IEC 60529</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | finger-safe, for vertical contact from the front                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>electromagnetic compatibility</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | acc. to IEC 60947-4-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>ATEX</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>certificate of suitability</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <ul style="list-style-type: none"> <li>ATEX</li> <li>IECEx</li> <li>according to ATEX directive 2014/34/EU</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Yes<br>Yes<br>BVS 18 ATEX F 003 X                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>type of protection according to ATEX directive 2014/34/EU</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | II (2)G [Ex eb Gb] [Ex db Gb] [Ex pxb Gb], II (2)D [Ex tb Db] [Ex pxb Db], I (M2) [Ex db Mb]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>hardware fault tolerance according to IEC 61508 relating to ATEX</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

|                                                                      |      |
|----------------------------------------------------------------------|------|
| Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX | SIL1 |
|----------------------------------------------------------------------|------|

#### Certificates/ approvals

#### General Product Approval



[Confirmation](#)



|     |                                |                   |                   |
|-----|--------------------------------|-------------------|-------------------|
| EMV | For use in hazardous locations | Test Certificates | Marine / Shipping |
|-----|--------------------------------|-------------------|-------------------|



[Type Test Certificates/Test Report](#)



|                   |       |
|-------------------|-------|
| Marine / Shipping | other |
|-------------------|-------|



[Confirmation](#)

#### Further information

Siemens has decided to exit the Russian market (see here).

<https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business>

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

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=3RW5516-3HA15>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5516-3HA15>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RW5516-3HA15>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RW5516-3HA15&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5516-3HA15&lang=en)

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RW5516-3HA15/char>

Characteristic: Installation altitude

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5516-3HA15&objecttype=14&gridview=view1>

Simulation Tool for Soft Starters (STS)

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





