



SIRIUS soft starter 200-480 V 315 A, 110-250 V AC spring-type terminals Analog output

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| <b>product brand name</b>                               | SIRIUS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>product category</b>                                 | Hybrid switching devices                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>product designation</b>                              | Soft starter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>product type designation</b>                         | 3RW52                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>manufacturer's article number</b>                    | <ul style="list-style-type: none"> <li>of standard HMI module usable <a href="#">3RW5980-0HS00</a></li> <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 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="#">3VA2440-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10</a></li> <li>of circuit breaker usable at 500 V <a href="#">3VA2440-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10</a></li> <li>of circuit breaker usable at 400 V at inside-delta circuit <a href="#">3VA2580-6HN32-0AA0; 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="#">3VA2580-6HN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10</a></li> <li>of the gG fuse usable up to 690 V 2x3NA3365-6; Type of coordination 1, Iq = 65 kA</li> <li>of the gG fuse usable at inside-delta circuit up to 500 V 2x3NA3365-6; Type of coordination 1, Iq = 65 kA</li> <li>of full range R fuse link for semiconductor protection usable up to 690 V <a href="#">3NE1334-2; 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="#">3NE3336; Type of coordination 2, Iq = 65 kA</a></li> </ul> |
| <b>General technical data</b>                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>starting voltage [%]</b>                             | 30 ... 100 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>stopping voltage [%]</b>                             | 50 %; non-adjustable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>start-up ramp time of soft starter</b>               | 0 ... 20 s                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>current limiting value [%] adjustable</b>            | 130 ... 700 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>certificate of suitability</b>                       | <ul style="list-style-type: none"> <li>CE marking Yes</li> <li>UL approval Yes</li> <li>CSA approval Yes</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>product component</b>                                | <ul style="list-style-type: none"> <li>HMI-High Feature No</li> <li>is supported HMI-Standard Yes</li> <li>is supported HMI-High Feature Yes</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>product feature integrated bypass contact system</b> | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>number of controlled phases</b>                      | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>trip class</b>                                       | CLASS 10A (default) / 10E / 20E; acc. to IEC 60947-4-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>buffering time in the event of power failure</b>     | <ul style="list-style-type: none"> <li>for main current circuit 100 ms</li> <li>for control circuit 100 ms</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

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| <b>insulation voltage rated value</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 600 V                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>degree of pollution</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3, acc. to IEC 60947-4-2                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>impulse voltage rated value</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 6 kV                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>blocking voltage of the thyristor maximum</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1 600 V                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>service factor</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>surge voltage resistance rated value</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6 kV                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>maximum permissible voltage for protective separation</b><br>• between main and auxiliary circuit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 600 V                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>shock resistance</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 15 g / 11 ms, from 12 g / 11 ms with potential contact lifting                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>vibration resistance</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 15 mm to 6 Hz; 2g to 500 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| utilization category 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><br>• ramp-up (soft starting)<br>• ramp-down (soft stop)<br>• Soft Torque<br>• adjustable current limitation<br>• pump ramp down<br>• intrinsic device protection<br>• motor overload protection<br>• evaluation of thermistor motor protection<br>• inside-delta circuit<br>• auto-RESET<br>• manual RESET<br>• remote reset<br>• communication function<br>• operating measured value display<br>• error logbook<br>• via software parameterizable<br>• via software configurable<br>• <b>PROFInergy</b><br>• <b>firmware update</b><br>• <b>removable terminal for control circuit</b><br>• torque control<br>• analog output | Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes; Electronic motor overload protection<br>No<br>Yes<br>Yes<br>Yes<br>Yes; By turning off the control supply voltage<br>Yes<br>Yes; Only in conjunction with special accessories<br>Yes; Only in conjunction with special accessories<br>No<br>Yes<br>Yes; in connection with the PROFINET Standard communication module<br>Yes<br>Yes<br>No<br>Yes; 4 ... 20 mA (default) / 0 ... 10 V (parameterizable with High Feature HMI) |
| <b>Power Electronics</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>operational current</b><br>• at 40 °C rated value<br>• at 50 °C rated value<br>• at 60 °C rated value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 315 A<br>279 A<br>255 A                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>operational current at inside-delta circuit</b><br>• at 40 °C rated value<br>• at 50 °C rated value<br>• at 60 °C rated value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 546 A<br>483 A<br>442 A                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>operating voltage</b><br>• rated value<br>• at inside-delta circuit rated value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 200 ... 480 V<br>200 ... 480 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><br>• at 230 V at 40 °C rated value<br>• at 230 V at inside-delta circuit at 40 °C rated value<br>• at 400 V at 40 °C rated value<br>• at 400 V at inside-delta circuit at 40 °C rated value                                                                                                                                                                                                                                                                                                                                                                                                                   | 90 kW<br>160 kW<br>160 kW<br>315 kW                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Operating frequency 1 rated value</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 50 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Operating frequency 2 rated value</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 60 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

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|--------------------------------------------------------------------------|----------------------------------------------------|
| <b>relative negative tolerance of the operating frequency</b>            | -10 %                                              |
| <b>relative positive tolerance of the operating frequency</b>            | 10 %                                               |
| <b>adjustable motor current</b>                                          |                                                    |
| • at rotary coding switch on switch position 1                           | 135 A                                              |
| • at rotary coding switch on switch position 2                           | 147 A                                              |
| • at rotary coding switch on switch position 3                           | 159 A                                              |
| • at rotary coding switch on switch position 4                           | 171 A                                              |
| • at rotary coding switch on switch position 5                           | 183 A                                              |
| • at rotary coding switch on switch position 6                           | 195 A                                              |
| • at rotary coding switch on switch position 7                           | 207 A                                              |
| • at rotary coding switch on switch position 8                           | 219 A                                              |
| • at rotary coding switch on switch position 9                           | 231 A                                              |
| • at rotary coding switch on switch position 10                          | 243 A                                              |
| • at rotary coding switch on switch position 11                          | 255 A                                              |
| • at rotary coding switch on switch position 12                          | 267 A                                              |
| • at rotary coding switch on switch position 13                          | 279 A                                              |
| • at rotary coding switch on switch position 14                          | 291 A                                              |
| • at rotary coding switch on switch position 15                          | 303 A                                              |
| • at rotary coding switch on switch position 16                          | 315 A                                              |
| • minimum                                                                | 135 A                                              |
| <b>adjustable motor current</b>                                          |                                                    |
| • for inside-delta circuit at rotary coding switch on switch position 1  | 234 A                                              |
| • for inside-delta circuit at rotary coding switch on switch position 2  | 255 A                                              |
| • for inside-delta circuit at rotary coding switch on switch position 3  | 275 A                                              |
| • for inside-delta circuit at rotary coding switch on switch position 4  | 296 A                                              |
| • for inside-delta circuit at rotary coding switch on switch position 5  | 317 A                                              |
| • for inside-delta circuit at rotary coding switch on switch position 6  | 338 A                                              |
| • for inside-delta circuit at rotary coding switch on switch position 7  | 359 A                                              |
| • for inside-delta circuit at rotary coding switch on switch position 8  | 379 A                                              |
| • for inside-delta circuit at rotary coding switch on switch position 9  | 400 A                                              |
| • for inside-delta circuit at rotary coding switch on switch position 10 | 421 A                                              |
| • for inside-delta circuit at rotary coding switch on switch position 11 | 442 A                                              |
| • for inside-delta circuit at rotary coding switch on switch position 12 | 462 A                                              |
| • for inside-delta circuit at rotary coding switch on switch position 13 | 483 A                                              |
| • for inside-delta circuit at rotary coding switch on switch position 14 | 504 A                                              |
| • for inside-delta circuit at rotary coding switch on switch position 15 | 525 A                                              |
| • for inside-delta circuit at rotary coding switch on switch position 16 | 546 A                                              |
| • at inside-delta circuit minimum                                        | 234 A                                              |
| <b>minimum load [%]</b>                                                  | 15 %; Relative to smallest settable I <sub>e</sub> |
| <b>power loss [W] for rated value of the current at AC</b>               |                                                    |
| • at 40 °C after startup                                                 | 107 W                                              |
| • at 50 °C after startup                                                 | 96 W                                               |
| • at 60 °C after startup                                                 | 89 W                                               |
| <b>power loss [W] at AC at current limitation 350 %</b>                  |                                                    |
| • at 40 °C during startup                                                | 5 350 W                                            |
| • at 50 °C during startup                                                | 4 471 W                                            |
| • at 60 °C during startup                                                | 3 934 W                                            |
| <b>Control circuit/ Control</b>                                          |                                                    |
| <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 frequency</b>      | 10 %                                                                                                                                                                           |
| <b>control supply current in standby mode rated value</b>                       | 30 mA                                                                                                                                                                          |
| <b>holding current in bypass operation rated value</b>                          | 100 mA                                                                                                                                                                         |
| <b>inrush current by closing the bypass contacts maximum</b>                    | 2.2 A                                                                                                                                                                          |
| inrush current peak at application of control supply voltage maximum            | 12.2 A                                                                                                                                                                         |
| duration of inrush current peak at application of control supply voltage        | 2.2 ms                                                                                                                                                                         |
| <b>design of the overvoltage protection</b>                                     | Varistor                                                                                                                                                                       |
| <b>design of short-circuit protection for control circuit</b>                   | 4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply |
| <b>Inputs/ Outputs</b>                                                          |                                                                                                                                                                                |
| <b>number of digital inputs</b>                                                 | 1                                                                                                                                                                              |
| <b>number of digital outputs</b>                                                | 3                                                                                                                                                                              |
| • not parameterizable                                                           | 2                                                                                                                                                                              |
| <b>digital output version</b>                                                   | 2 normally-open contacts (NO) / 1 changeover contact (CO)                                                                                                                      |
| <b>number of analog outputs</b>                                                 | 1                                                                                                                                                                              |
| <b>switching capacity current of the relay outputs</b>                          |                                                                                                                                                                                |
| • 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>                                                        | with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back                                                       |
| <b>fastening method</b>                                                         | screw fixing                                                                                                                                                                   |
| <b>height</b>                                                                   | 393 mm                                                                                                                                                                         |
| <b>width</b>                                                                    | 210 mm                                                                                                                                                                         |
| <b>depth</b>                                                                    | 203 mm                                                                                                                                                                         |
| required spacing with side-by-side mounting                                     |                                                                                                                                                                                |
| • forwards                                                                      | 10 mm                                                                                                                                                                          |
| • backwards                                                                     | 0 mm                                                                                                                                                                           |
| • upwards                                                                       | 100 mm                                                                                                                                                                         |
| • downwards                                                                     | 75 mm                                                                                                                                                                          |
| • at the side                                                                   | 5 mm                                                                                                                                                                           |
| <b>weight without packaging</b>                                                 | 9.9 kg                                                                                                                                                                         |
| <b>Connections/ Terminals</b>                                                   |                                                                                                                                                                                |
| <b>type of electrical connection</b>                                            |                                                                                                                                                                                |
| • for main current circuit                                                      | busbar connection                                                                                                                                                              |
| • for control circuit                                                           | spring-loaded terminals                                                                                                                                                        |
| <b>width of connection bar maximum</b>                                          | 45 mm                                                                                                                                                                          |
| <b>type of connectable conductor cross-sections</b>                             |                                                                                                                                                                                |
| • for DIN cable lug for main contacts stranded                                  | 2x (50 ... 240 mm²)                                                                                                                                                            |
| • for DIN cable lug for main contacts finely stranded                           | 2x (70 ... 240 mm²)                                                                                                                                                            |
| <b>type of connectable conductor cross-sections</b>                             |                                                                                                                                                                                |
| • for control circuit solid                                                     | 2x (0.25 ... 1.5 mm²)                                                                                                                                                          |
| • for control circuit finely stranded with core end processing                  | 2x (0.25 ... 1.5 mm²)                                                                                                                                                          |
| • 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)                                                                                                                                                                 |

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| <b>wire length</b>                                                                   |                                                                                                                         |
| • between soft starter and motor maximum                                             | 800 m                                                                                                                   |
| • at the digital inputs at AC maximum                                                | 100 m                                                                                                                   |
| <b>tightening torque</b>                                                             |                                                                                                                         |
| • for main contacts with screw-type terminals                                        | 14 ... 24 N·m                                                                                                           |
| • for auxiliary and control contacts with screw-type terminals                       | 0.8 ... 1.2 N·m                                                                                                         |
| <b>tightening torque [lbf·in]</b>                                                    |                                                                                                                         |
| • for main contacts with screw-type terminals                                        | 124 ... 210 lbf·in                                                                                                      |
| • for auxiliary and control contacts with screw-type terminals                       | 7 ... 10.3 lbf·in                                                                                                       |
| <b>Ambient conditions</b>                                                            |                                                                                                                         |
| installation altitude at height above sea level maximum                              | 5 000 m; Derating as of 1000 m, see catalog                                                                             |
| <b>ambient temperature</b>                                                           |                                                                                                                         |
| • during operation                                                                   | -25 ... +60 °C; Please observe derating at temperatures of 40 °C or above                                               |
| • during storage and transport                                                       | -40 ... +80 °C                                                                                                          |
| <b>environmental category</b>                                                        |                                                                                                                         |
| • during operation according to IEC 60721                                            | 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 |
| • during storage according to IEC 60721                                              | 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4                 |
| • during transport according to IEC 60721                                            | 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)                                                                             |
| <b>EMC emitted interference</b>                                                      |                                                                                                                         |
| acc. to IEC 60947-4-2: Class A                                                       |                                                                                                                         |
| <b>Communication/ Protocol</b>                                                       |                                                                                                                         |
| <b>communication module is supported</b>                                             |                                                                                                                         |
| • PROFINET standard                                                                  | Yes                                                                                                                     |
| • EtherNet/IP                                                                        | Yes                                                                                                                     |
| • Modbus RTU                                                                         | Yes                                                                                                                     |
| • Modbus TCP                                                                         | Yes                                                                                                                     |
| • PROFIBUS                                                                           | Yes                                                                                                                     |
| <b>UL/CSA ratings</b>                                                                |                                                                                                                         |
| <b>manufacturer's article number</b>                                                 |                                                                                                                         |
| • of circuit breaker                                                                 |                                                                                                                         |
| — usable for Standard Faults at 460/480 V according to UL                            | Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA                                                        |
| — usable for High Faults at 460/480 V according to UL                                | Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA                                                    |
| — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL    | Siemens type: 3VA54, max. 600 A; Iq = 18 kA                                                                             |
| — usable for High Faults at 460/480 V at inside-delta circuit according to UL        | Siemens type: 3VA54, max. 600 A; Iq max = 65 kA                                                                         |
| — usable for Standard Faults at 575/600 V according to UL                            | Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA                                                        |
| — usable for Standard Faults at 575/600 V at inside-delta circuit according to UL    | Siemens type: 3VA54, max. 600 A; Iq = 18 kA                                                                             |
| • of the fuse                                                                        |                                                                                                                         |
| — usable for Standard Faults up to 575/600 V according to UL                         | Type: Class J / L, max. 1000 A; Iq = 18 kA                                                                              |
| — usable for High Faults up to 575/600 V according to UL                             | Type: Class J / L, max. 1000 A; Iq = 100 kA                                                                             |
| — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL | Type: Class J / L, max. 1000 A; Iq = 18 kA                                                                              |
| — usable for High Faults at inside-delta circuit up to 575/600 V according to UL     | Type: Class J / L, max. 1000 A; Iq = 100 kA                                                                             |
| <b>operating power [hp] for 3-phase motors</b>                                       |                                                                                                                         |
| • at 200/208 V at 50 °C rated value                                                  | 75 hp                                                                                                                   |
| • at 220/230 V at 50 °C rated value                                                  | 100 hp                                                                                                                  |
| • at 460/480 V at 50 °C rated value                                                  | 200 hp                                                                                                                  |
| • at 200/208 V at inside-delta circuit at 50 °C rated value                          | 150 hp                                                                                                                  |
| • at 220/230 V at inside-delta circuit at 50 °C rated value                          | 200 hp                                                                                                                  |
| • at 460/480 V at inside-delta circuit at 50 °C rated value                          | 400 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>                       |                                                                                                                         |
| IP00; IP20 with cover                                                                |                                                                                                                         |
| <b>touch protection on the front according to IEC 60529</b>                          |                                                                                                                         |
| finger-safe, for vertical contact from the front with cover                          |                                                                                                                         |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |
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| electromagnetic compatibility                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                   | in accordance with IEC 60947-4-2                                                  |                                                                                   |                                                                                     |                                                                                     |
| Certificates/ approvals                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |
| General Product Approval                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                   |                                                                                   | EMC                                                                               |                                                                                     |                                                                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <a href="#">Confirmation</a>                                                      |  |  |  |  |
| Declaration of Conformity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                   | Test Certificates                                                                 | Marine / Shipping                                                                 |                                                                                     |                                                                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  | <a href="#">Type Test Certificates/Test Report</a>                                |  |  |  |
| Marine / Shipping                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                   | other                                                                             |                                                                                   |                                                                                     |                                                                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <a href="#">Confirmation</a>                                                      |                                                                                   |                                                                                   |                                                                                     |                                                                                     |
| Further information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |
| <p>Siemens has decided to exit the Russian market (see here).<br/><a href="https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business">https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business</a></p> <p>Siemens is working on the renewal of the current EAC certificates.<br/>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).</p> <p>Information on the packaging<br/><a href="https://support.industry.siemens.com/cs/ww/en/view/109813875">https://support.industry.siemens.com/cs/ww/en/view/109813875</a></p> <p>Information- and Downloadcenter (Catalogs, Brochures,...)<br/><a href="https://www.siemens.com/ic10">https://www.siemens.com/ic10</a></p> <p>Industry Mall (Online ordering system)<br/><a href="https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW5245-2AC14">https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW5245-2AC14</a></p> <p>Cax online generator<br/><a href="http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&amp;mlfb=3RW5245-2AC14">http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&amp;mlfb=3RW5245-2AC14</a></p> <p>Service&amp;Support (Manuals, Certificates, Characteristics, FAQs,...)<br/><a href="https://support.industry.siemens.com/cs/ww/en/ps/3RW5245-2AC14">https://support.industry.siemens.com/cs/ww/en/ps/3RW5245-2AC14</a></p> <p>Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)<br/><a href="http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5245-2AC14&amp;lang=en">http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5245-2AC14&amp;lang=en</a></p> <p>Characteristic: Tripping characteristics, I²t, Let-through current<br/><a href="https://support.industry.siemens.com/cs/ww/en/ps/3RW5245-2AC14/char">https://support.industry.siemens.com/cs/ww/en/ps/3RW5245-2AC14/char</a></p> <p>Characteristic: Installation altitude<br/><a href="http://www.automation.siemens.com/bilddb/index.aspx?view=Search&amp;mlfb=3RW5245-2AC14&amp;objecttype=14&amp;gridview=view1">http://www.automation.siemens.com/bilddb/index.aspx?view=Search&amp;mlfb=3RW5245-2AC14&amp;objecttype=14&amp;gridview=view1</a></p> <p>Simulation Tool for Soft Starters (STS)<br/><a href="https://support.industry.siemens.com/cs/ww/en/view/101494917">https://support.industry.siemens.com/cs/ww/en/view/101494917</a></p> |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |





