

Siemens  
EcoTech



SIRIUS soft starter 200-600 V 25 A, 110-250 V AC Screw terminals Thermistor input



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| product brand name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | SIRIUS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| product category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Hybrid switching devices                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| product designation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Soft starter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| product type designation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 3RW52                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| manufacturer's article number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <ul style="list-style-type: none"><li>• of standard HMI module usable</li><li>• of high feature HMI module usable</li><li>• of communication module PROFINET standard usable</li><li>• of communication module PROFIBUS usable</li><li>• of communication module Modbus TCP usable</li><li>• of communication module Modbus RTU usable</li><li>• of communication module Ethernet/IP</li><li>• of circuit breaker usable at 400 V</li><li>• of circuit breaker usable at 500 V</li><li>• of circuit breaker usable at 400 V at inside-delta circuit</li><li>• of circuit breaker usable at 500 V at inside-delta circuit</li><li>• of the gG fuse usable up to 690 V</li><li>• of the gG fuse usable at inside-delta circuit up to 500 V</li><li>• of full range R fuse link for semiconductor protection usable up to 690 V</li><li>• of back-up R fuse link for semiconductor protection usable up to 690 V</li></ul> | <a href="#">3RW5980-0HS00</a><br><a href="#">3RW5980-0HF00</a><br><a href="#">3RW5980-0CS00</a><br><a href="#">3RW5980-0CP00</a><br><a href="#">3RW5980-0CT00</a><br><a href="#">3RW5980-0CR00</a><br><a href="#">3RW5980-0CE00</a><br><a href="#">3RV2032-4EA10: Type of coordination 1, Iq = 65 kA, CLASS 10</a><br><a href="#">3RV2032-4EA10: Type of coordination 1, Iq = 15 kA, CLASS 10</a><br><a href="#">3RV2032-4VA10: Type of coordination 1, Iq = 65 kA, CLASS 10</a><br><a href="#">3RV2032-4VA10: Type of coordination 1, Iq = 15 kA, CLASS 10</a><br><a href="#">3NA3822-6: Type of coordination 1, Iq = 65 kA</a><br><a href="#">3NA3822-6: Type of coordination 1, Iq = 65 kA</a><br><a href="#">3NE1817-0: Type of coordination 2, Iq = 65 kA</a><br><a href="#">3NE8021-1: Type of coordination 2, Iq = 65 kA</a> |
| General technical data                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| starting voltage [%]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 30 ... 100 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| stopping voltage [%]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 50 %; non-adjustable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| start-up ramp time of soft starter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0 ... 20 s                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| current limiting value [%] adjustable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 130 ... 700 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| certificate of suitability                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <ul style="list-style-type: none"><li>• CE marking</li><li>• UL approval</li><li>• CSA approval</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Yes<br>Yes<br>Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| product component                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <ul style="list-style-type: none"><li>• HMI-High Feature</li><li>• is supported HMI-Standard</li><li>• is supported HMI-High Feature</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | No<br>Yes<br>Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| product feature integrated bypass contact system                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| number of controlled phases                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| buffering time in the event of power failure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

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|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• for main current circuit</li> <li>• for control circuit</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 100 ms                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>insulation voltage rated value</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 600 V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>degree of pollution</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3, acc. to IEC 60947-4-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>impulse voltage rated value</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 6 kV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>blocking voltage of the thyristor maximum</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1 600 V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>service factor</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>surge voltage resistance rated value</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6 kV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>maximum permissible voltage for protective separation</b> <ul style="list-style-type: none"> <li>• between main and auxiliary circuit</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 600 V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>shock resistance</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 15 g / 11 ms, from 12 g / 11 ms with potential contact lifting                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>vibration resistance</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 15 mm to 6 Hz; 2g to 500 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| utilization category according to IEC 60947-4-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | AC 53a                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>reference code according to IEC 81346-2</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Q                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Substance Prohibitance (Date)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 02/15/2018                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>SVHC substance name</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Lead - 7439-92-1<br>Lead monoxide (lead oxide) - 1317-36-8<br>2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol - 79-94-7<br>2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one - 71868-10-5<br>6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol - 119-47-1<br>Dibutylbis(pentane-2,4-dionato-O,O')tin - 22673-19-4<br>Diboron trioxide - 1303-86-2                                                                                                                                        |
| <b>Weight</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2.3 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>product function</b> <ul style="list-style-type: none"> <li>• ramp-up (soft starting)</li> <li>• ramp-down (soft stop)</li> <li>• Soft Torque</li> <li>• adjustable current limitation</li> <li>• pump ramp down</li> <li>• intrinsic device protection</li> <li>• motor overload protection</li> <li>• evaluation of thermistor motor protection</li> <li>• inside-delta circuit</li> <li>• auto-RESET</li> <li>• manual RESET</li> <li>• remote reset</li> <li>• communication function</li> <li>• operating measured value display</li> <li>• error logbook</li> <li>• via software parameterizable</li> <li>• via software configurable</li> <li>• PROFinergy</li> <li>• firmware update</li> <li>• removable terminal for control circuit</li> <li>• torque control</li> <li>• analog output</li> </ul> | Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes; Full motor protection (thermistor motor protection and electronic motor overload protection)<br>Yes; Type A PTC or Klixon / Thermoclick<br>Yes<br>Yes<br>Yes<br>Yes; By turning off the control supply voltage<br>Yes<br>Yes; Only in conjunction with special accessories<br>Yes; Only in conjunction with special accessories<br>No<br>Yes<br>Yes; in connection with the PROFINET Standard communication module<br>Yes<br>Yes<br>No<br>No |
| <b>Power Electronics</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>operational current</b> <ul style="list-style-type: none"> <li>• at 40 °C rated value</li> <li>• at 50 °C rated value</li> <li>• at 60 °C rated value</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 25 A<br>22.3 A<br>19.6 A                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>operational current at inside-delta circuit</b> <ul style="list-style-type: none"> <li>• at 40 °C rated value</li> <li>• at 50 °C rated value</li> <li>• at 60 °C rated value</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 43.3 A<br>39 A<br>33.9 A                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>operating voltage</b> <ul style="list-style-type: none"> <li>• rated value</li> <li>• at inside-delta circuit rated value</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 200 ... 600 V<br>200 ... 600 V                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>relative negative tolerance of the operating voltage</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -15 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>relative positive tolerance of the operating voltage</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 10 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>relative negative tolerance of the operating voltage at inside-delta circuit</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -15 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

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|-------------------------------------------------------------------------------------|----------------------------------------------------|
| <b>relative positive tolerance of the operating voltage at inside-delta circuit</b> | 10 %                                               |
| <b>operating power for 3-phase motors</b>                                           |                                                    |
| • at 230 V at 40 °C rated value                                                     | 5.5 kW                                             |
| • at 230 V at inside-delta circuit at 40 °C rated value                             | 11 kW                                              |
| • at 400 V at 40 °C rated value                                                     | 11 kW                                              |
| • at 400 V at inside-delta circuit at 40 °C rated value                             | 18.5 kW                                            |
| • at 500 V at 40 °C rated value                                                     | 15 kW                                              |
| • at 500 V at inside-delta circuit at 40 °C rated value                             | 22 kW                                              |
| <b>Operating frequency 1 rated value</b>                                            | 50 Hz                                              |
| <b>Operating frequency 2 rated value</b>                                            | 60 Hz                                              |
| <b>relative negative tolerance of the operating frequency</b>                       | -10 %                                              |
| <b>relative positive tolerance of the operating frequency</b>                       | 10 %                                               |
| <b>adjustable motor current</b>                                                     |                                                    |
| • at rotary coding switch on switch position 1                                      | 11.5 A                                             |
| • at rotary coding switch on switch position 2                                      | 12.4 A                                             |
| • at rotary coding switch on switch position 3                                      | 13.3 A                                             |
| • at rotary coding switch on switch position 4                                      | 14.2 A                                             |
| • at rotary coding switch on switch position 5                                      | 15.1 A                                             |
| • at rotary coding switch on switch position 6                                      | 16 A                                               |
| • at rotary coding switch on switch position 7                                      | 16.9 A                                             |
| • at rotary coding switch on switch position 8                                      | 17.8 A                                             |
| • at rotary coding switch on switch position 9                                      | 18.7 A                                             |
| • at rotary coding switch on switch position 10                                     | 19.6 A                                             |
| • at rotary coding switch on switch position 11                                     | 20.5 A                                             |
| • at rotary coding switch on switch position 12                                     | 21.4 A                                             |
| • at rotary coding switch on switch position 13                                     | 22.3 A                                             |
| • at rotary coding switch on switch position 14                                     | 23.2 A                                             |
| • at rotary coding switch on switch position 15                                     | 24.1 A                                             |
| • at rotary coding switch on switch position 16                                     | 25 A                                               |
| • minimum                                                                           | 11.5 A                                             |
| <b>adjustable motor current</b>                                                     |                                                    |
| • for inside-delta circuit at rotary coding switch on switch position 1             | 19.9 A                                             |
| • for inside-delta circuit at rotary coding switch on switch position 2             | 21.5 A                                             |
| • for inside-delta circuit at rotary coding switch on switch position 3             | 23 A                                               |
| • for inside-delta circuit at rotary coding switch on switch position 4             | 24.6 A                                             |
| • for inside-delta circuit at rotary coding switch on switch position 5             | 26.2 A                                             |
| • for inside-delta circuit at rotary coding switch on switch position 6             | 27.7 A                                             |
| • for inside-delta circuit at rotary coding switch on switch position 7             | 29.3 A                                             |
| • for inside-delta circuit at rotary coding switch on switch position 8             | 30.8 A                                             |
| • for inside-delta circuit at rotary coding switch on switch position 9             | 32.4 A                                             |
| • for inside-delta circuit at rotary coding switch on switch position 10            | 33.9 A                                             |
| • for inside-delta circuit at rotary coding switch on switch position 11            | 35.5 A                                             |
| • for inside-delta circuit at rotary coding switch on switch position 12            | 37.1 A                                             |
| • for inside-delta circuit at rotary coding switch on switch position 13            | 38.6 A                                             |
| • for inside-delta circuit at rotary coding switch on switch position 14            | 40.2 A                                             |
| • for inside-delta circuit at rotary coding switch on switch position 15            | 41.7 A                                             |
| • for inside-delta circuit at rotary coding switch on switch position 16            | 43.3 A                                             |
| • at inside-delta circuit minimum                                                   | 19.9 A                                             |
| <b>minimum load [%]</b>                                                             | 15 %; Relative to smallest settable I <sub>e</sub> |

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|---------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>power loss [W] for rated value of the current at AC</b>                      |                                                                                                                                                                                |
| • at 40 °C after startup                                                        | 20 W                                                                                                                                                                           |
| • at 50 °C after startup                                                        | 19 W                                                                                                                                                                           |
| • at 60 °C after startup                                                        | 18 W                                                                                                                                                                           |
| <b>power loss [W] at AC at current limitation 350 %</b>                         |                                                                                                                                                                                |
| • at 40 °C during startup                                                       | 376 W                                                                                                                                                                          |
| • at 50 °C during startup                                                       | 318 W                                                                                                                                                                          |
| • at 60 °C during startup                                                       | 278 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>                          | 75 mA                                                                                                                                                                          |
| <b>inrush current by closing the bypass contacts maximum</b>                    | 0.17 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>                                                 | 0                                                                                                                                                                              |
| <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>                                                        | +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface                                                                                   |
| <b>fastening method</b>                                                         | screw fixing                                                                                                                                                                   |
| <b>height</b>                                                                   | 275 mm                                                                                                                                                                         |
| <b>width</b>                                                                    | 170 mm                                                                                                                                                                         |
| <b>depth</b>                                                                    | 152 mm                                                                                                                                                                         |
| required spacing with side-by-side mounting                                     |                                                                                                                                                                                |
| • forwards                                                                      | 10 mm                                                                                                                                                                          |
| • backwards                                                                     | 0 mm                                                                                                                                                                           |
| • upwards                                                                       | 100 mm                                                                                                                                                                         |
| • downwards                                                                     | 75 mm                                                                                                                                                                          |
| • at the side                                                                   | 5 mm                                                                                                                                                                           |
| <b>weight without packaging</b>                                                 | 2.1 kg                                                                                                                                                                         |
| <b>Connections/ Terminals</b>                                                   |                                                                                                                                                                                |
| <b>type of electrical connection</b>                                            |                                                                                                                                                                                |
| • for main current circuit                                                      | screw-type terminals                                                                                                                                                           |
| • for control circuit                                                           | screw-type terminals                                                                                                                                                           |

|                                                                    |                                                                                                                         |
|--------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| <b>wire length for thermistor connection</b>                       |                                                                                                                         |
| • with conductor cross-section = 0.5 mm <sup>2</sup> maximum       | 50 m                                                                                                                    |
| • with conductor cross-section = 1.5 mm <sup>2</sup> maximum       | 150 m                                                                                                                   |
| • with conductor cross-section = 2.5 mm <sup>2</sup> maximum       | 250 m                                                                                                                   |
| <b>type of connectable conductor cross-sections</b>                |                                                                                                                         |
| • for main contacts                                                |                                                                                                                         |
| — solid                                                            | 2x (1.0 ... 2.5 mm <sup>2</sup> ), 2x (2.5 ... 10 mm <sup>2</sup> )                                                     |
| — finely stranded with core end processing                         | 2x (1.0 ... 2.5 mm <sup>2</sup> ), 2x (2.5 ... 6.0 mm <sup>2</sup> )                                                    |
| • for AWG cables for main current circuit solid                    | 2x (16 ... 12), 2x (14 ... 8)                                                                                           |
| <b>type of connectable conductor cross-sections</b>                |                                                                                                                         |
| • for control circuit solid                                        | 1x (0.5 ... 4.0 mm <sup>2</sup> ), 2x (0.5 ... 2.5 mm <sup>2</sup> )                                                    |
| • for control circuit finely stranded with core end processing     | 1x (0.5 ... 2.5 mm <sup>2</sup> ), 2x (0.5 ... 1.5 mm <sup>2</sup> )                                                    |
| • for AWG cables for control circuit solid                         | 1x (20 ... 12), 2x (20 ... 14)                                                                                          |
| <b>wire length</b>                                                 |                                                                                                                         |
| • between soft starter and motor maximum                           | 800 m                                                                                                                   |
| • at the digital inputs at AC maximum                              | 100 m                                                                                                                   |
| <b>tightening torque</b>                                           |                                                                                                                         |
| • for main contacts with screw-type terminals                      | 2 ... 2.5 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                      | 18 ... 22 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>Environmental footprint</b>                                     |                                                                                                                         |
| global warming potential [CO <sub>2</sub> eq] total                | 185 kg                                                                                                                  |
| global warming potential [CO <sub>2</sub> eq] during manufacturing | 37.2 kg                                                                                                                 |
| global warming potential [CO <sub>2</sub> eq] during sales         | 0.66 kg                                                                                                                 |
| global warming potential [CO <sub>2</sub> eq] during operation     | 152 kg                                                                                                                  |
| global warming potential [CO <sub>2</sub> eq] after end of life    | -4.19 kg                                                                                                                |
| Siemens Eco Profile (SEP)                                          | Siemens EcoTech                                                                                                         |
| <b>Electromagnetic compatibility</b>                               |                                                                                                                         |
| <b>EMC emitted interference</b>                                    | acc. to IEC 60947-4-2: Class A                                                                                          |
| <b>Communication/ Protocol</b>                                     |                                                                                                                         |
| <b>communication module is supported</b>                           |                                                                                                                         |
| • 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: 3RV2742, max. 70 A or 3VA51, max. 80 A; I <sub>q</sub> = 5 kA                                             |
| — 60/480 V according to UL                                         | Siemens type: 3RV2742, max. 40 A or 3VA51, max. 60 A; I <sub>q</sub> max = 65 kA                                        |
| — at 460/480 V at inside-delta circuit according to UL             | Siemens type: 3RV2742, max. 70 A or 3VA51, max. 80 A; I <sub>q</sub> = 5 kA                                             |
| — 60/480 V at inside-delta circuit according to UL                 | Siemens type: 3VA51, max. 60 A; I <sub>q</sub> max = 65 kA                                                              |
| — at 575/600 V according to UL                                     | Siemens type: 3RV2742, max. 70 A or 3VA51, max. 80 A; I <sub>q</sub> = 5 kA                                             |
| — at 575/600 V at inside-delta circuit according to UL             | Siemens type: 3RV2742, max. 70 A or 3VA51, max. 80 A; I <sub>q</sub> = 5 kA                                             |
| • of the fuse                                                      |                                                                                                                         |
| — usable for Standard Faults up to 575/600 V                       | Type: Class RK5 / K5, max. 100 A; I <sub>q</sub> = 5 kA                                                                 |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                 |
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| according to UL<br>— usable for High Faults up to 575/600 V according to UL<br>— usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL<br>— usable for High Faults at inside-delta circuit up to 575/600 V according to UL                                                                                                                                                                                                                                                                                                         | Type: Class J / L, max. 100 A; Iq = 100 kA<br><br>Type: Class RK5 / K5, max. 100 A; Iq = 5 kA<br><br>Type: Class J / L, max. 100 A; Iq = 100 kA |
| <b>operating power [hp] for 3-phase motors</b> <ul style="list-style-type: none"> <li>• at 200/208 V at 50 °C rated value</li> <li>• at 220/230 V at 50 °C rated value</li> <li>• at 460/480 V at 50 °C rated value</li> <li>• at 575/600 V at 50 °C rated value</li> <li>• at 200/208 V at inside-delta circuit at 50 °C rated value</li> <li>• at 220/230 V at inside-delta circuit at 50 °C rated value</li> <li>• at 460/480 V at inside-delta circuit at 50 °C rated value</li> <li>• at 575/600 V at inside-delta circuit at 50 °C rated value</li> </ul> | 5 hp<br>7.5 hp<br>15 hp<br>20 hp<br>10 hp<br>10 hp<br>25 hp<br>30 hp                                                                            |
| <b>contact rating of auxiliary contacts according to UL</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | R300-B300                                                                                                                                       |
| <b>Electrical Safety</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                 |
| <b>protection class IP on the front according to IEC 60529</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | IP20                                                                                                                                            |
| <b>touch protection on the front according to IEC 60529</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | finger-safe, for vertical contact from the front                                                                                                |
| <b>Approvals Certificates</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                 |
| <b>General Product Approval</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | EMV                                                                                                                                             |



|                    |                                                    |                             |
|--------------------|----------------------------------------------------|-----------------------------|
| <b>EMV</b>         | <b>Test Certificates</b>                           | <b>Maritime application</b> |
| <a href="#">KC</a> | <a href="#">Type Test Certificates/Test Report</a> |                             |

|                              |                    |
|------------------------------|--------------------|
| <b>other</b>                 | <b>Environment</b> |
| <a href="#">Confirmation</a> |                    |

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| <b>Further information</b><br><b>Information on the packaging</b><br><a href="https://support.industry.siemens.com/cs/ww/en/view/109813875">https://support.industry.siemens.com/cs/ww/en/view/109813875</a><br><b>Information- and Downloadcenter (Catalogs, Brochures,...)</b><br><a href="https://www.siemens.com/ic10">https://www.siemens.com/ic10</a><br><b>Industry Mall (Online ordering system)</b><br><a href="https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW5215-1TC15">https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW5215-1TC15</a><br><b>Cax online generator</b><br><a href="http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&amp;mlfb=3RW5215-1TC15">http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&amp;mlfb=3RW5215-1TC15</a><br><b>Service&amp;Support (Manuals, Certificates, Characteristics, FAQs,...)</b><br><a href="https://support.industry.siemens.com/cs/ww/en/ps/3RW5215-1TC15">https://support.industry.siemens.com/cs/ww/en/ps/3RW5215-1TC15</a><br><b>Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)</b><br><a href="http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5215-1TC15&amp;lang=en">http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5215-1TC15&amp;lang=en</a><br><b>Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current</b><br><a href="https://support.industry.siemens.com/cs/ww/en/ps/3RW5215-1TC15/char">https://support.industry.siemens.com/cs/ww/en/ps/3RW5215-1TC15/char</a><br><b>Characteristic: Installation altitude</b><br><a href="http://www.automation.siemens.com/bilddb/index.aspx?view=Search&amp;mlfb=3RW5215-1TC15&amp;objecttype=14&amp;gridview=view1">http://www.automation.siemens.com/bilddb/index.aspx?view=Search&amp;mlfb=3RW5215-1TC15&amp;objecttype=14&amp;gridview=view1</a><br><b>Simulation Tool for Soft Starters (STS)</b><br><a href="https://support.industry.siemens.com/cs/ww/en/view/101494917">https://support.industry.siemens.com/cs/ww/en/view/101494917</a> |
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