## **SIEMENS**

product brand name

Data sheet 3RW5526-3HA04

SIRIUS



SIRIUS soft starter 200-480 V 77 A, 24 V AC/DC spring-type terminals

| product category  | Hybrid switching devices   |
|---|--|
| product designation   | Soft starter   |
| product type designation  | 3RW55  |
| manufacturer's article number   |  |
| <ul> <li>of high feature HMI module usable</li> </ul>   | 3RW5980-0HF00  |
| <ul> <li>of communication module PROFINET standard usable</li> </ul>                              | 3RW5980-0CS00  |
| • of communication module PROFINET high-feature usable  | 3RW5950-0CH00  |
| <ul> <li>of communication module PROFIBUS usable</li> </ul>                                       | 3RW5980-0CP00  |
| <ul> <li>of communication module Modbus TCP usable</li> </ul>                                     | 3RW5980-0CT00  |
| <ul> <li>of communication module Modbus RTU usable</li> </ul>                                     | 3RW5980-0CR00  |
| <ul> <li>of communication module Ethernet/IP</li> </ul>   | 3RW5980-0CE00  |
| <ul> <li>of circuit breaker usable at 400 V</li> </ul>  | 3VA2110-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10 |
| <ul> <li>of circuit breaker usable at 500 V</li> </ul>  | 3VA2110-7MN32-0AA0; Type of coordination 1, Iq = 20 kA, CLASS 10 |
| • of circuit breaker usable at 400 V at inside-delta circuit                                      | 3VA2216-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10 |
| • of circuit breaker usable at 500 V at inside-delta circuit                                      | 3VA2216-7MN32-0AA0; Type of coordination 1, lq = 65 kA, CLASS 10 |
| <ul> <li>of the gG fuse usable up to 690 V</li> </ul>   | 3NA3132-6; Type of coordination 1, Iq = 65 kA                    |
| <ul> <li>of the gG fuse usable at inside-delta circuit up to 500 V</li> </ul>                     | 3NA3132-6; Type of coordination 1, Iq = 65 kA                    |
| <ul> <li>of full range R fuse link for semiconductor protection<br/>usable up to 690 V</li> </ul> | 3NE1224-0; Type of coordination 2, Iq = 65 kA                    |
| <ul> <li>of back-up R fuse link for semiconductor protection<br/>usable up to 690 V</li> </ul>    | 3NE3227; Type of coordination 2, Iq = 65 kA                      |
| General technical data  |  |
| starting voltage [%]  | 20 100 %   |
| stopping voltage [%]  | 50 %; non-adjustable   |
| start-up ramp time of soft starter  | 0 360 s  |
| ramp-down time of soft starter  | 0 360 s  |
| start torque [%]  | 10 100 %   |
| stopping torque [%]   | 10 100 %   |
| torque limitation [%]   | 20 200 %   |
| current limiting value [%] adjustable   | 125 800 %  |
| breakaway voltage [%] adjustable  | 40 100 %   |
| breakaway time adjustable   | 0 2 s  |
| number of parameter sets  | 3  |
| accuracy class  | 5 (based on IEC 61557-12)  |
| certificate of suitability  |  |
| CE marking  | Yes  |
| UL approval   | Yes  |
| <ul> <li>CSA approval</li> </ul>  | Yes  |
| • COA approval  |  |
| product component   |  |

| • is supported HMI-High Feature                               | Yes  |
|---|--|
| product feature integrated bypass contact system              | Yes  |
| number of controlled phases                                   | 3  |
| trip class  | CLASS 10A / 10E (default) / 20E / 30E; acc. to IEC 60947-4-2   |
| current unbalance limiting value [%]                          | 10 60 %  |
| ground-fault monitoring limiting value [%]                    | 10 95 %  |
| buffering time in the event of power failure                  |  |
| for main current circuit                                      | 100 ms   |
| for control circuit   | 100 ms   |
| idle time adjustable  | 0 255 s  |
| insulation voltage rated value                                | 480 V  |
| degree of pollution   | 3, acc. to IEC 60947-4-2   |
| impulse voltage rated value                                   | 6 kV   |
| blocking voltage of the thyristor maximum                     | 1 400 V  |
| service factor  | 1.15   |
| surge voltage resistance rated value                          | 6 kV   |
| maximum permissible voltage for protective separation         |  |
| between main and auxiliary circuit                            | 480 V; does not apply for thermistor connection  |
| shock resistance  | 15 g / 11 ms, from 6 g / 11 ms with potential contact lifting  |
| vibration resistance  | 15 mm up to 6 Hz; 2 g up to 500 Hz   |
| recovery time after overload trip adjustable                  | 60 1 800 s   |
| utilization category according to IEC 60947-4-2               | AC 53a   |
| reference code according to IEC 81346-2                       | Q  |
| Substance Prohibitance (Date)                                 | 02/15/2018   |
| product function  | 02/13/2010   |
| • ramp-up (soft starting)                                     | Yes  |
| • ramp-down (soft stop)                                       | Yes  |
|   | Yes  |
| breakaway pulse     adii atable surrent limitation            | Yes  |
| adjustable current limitation                                 |  |
| creep speed in both directions of rotation                    | Yes  |
| pump ramp down  | Yes  |
| DC braking  | Yes  |
| motor heating   | Yes  |
| slave pointer function  | Yes  |
| trace function  | Yes  |
| <ul> <li>intrinsic device protection</li> </ul>               | Yes  |
| motor overload protection                                     | Yes; Full motor protection (thermistor motor protection and electronic motor overload protection) / When using the motor overload protection according to ATEX, an upstream contactor is required in inside-delta circuit. |
| <ul> <li>evaluation of thermistor motor protection</li> </ul> | Yes; Type A PTC or Klixon / Thermoclick  |
| • inside-delta circuit  | Yes  |
| • auto-RESET  | Yes  |
| • manual RESET  | Yes  |
| • remote reset  | Yes  |
| communication function  | Yes  |
| operating measured value display                              | Yes  |
| • event list  | Yes  |
| error logbook   | Yes  |
| via software parameterizable                                  | Yes  |
| via software configurable                                     | Yes  |
| screw terminal  | No   |
| spring-loaded terminal  | Yes  |
| PROFlenergy   | Yes; in connection with the PROFINET Standard and PROFINET High-Feature  |
| Frorienergy     firmware update                               | communication modules  Yes   |
| removable terminal for control circuit                        | Yes  |
|   | Yes  |
| voltage ramp     torque control                               |  |
| torque control  | Yes  |
|   | Yes  |
| combined braking     applies output                           | Vac. 4 20 m \ (defecth) / 0 40 \ /   |
| analog output     programmable control inputs/outputs         | Yes; 4 20 mA (default) / 0 10 V<br>Yes   |

| automatic parameterisation   | Yes  |
|--|--|
| <ul> <li>application wizards</li> </ul>                                      | Yes  |
| alternative run-down   | Yes  |
| <ul> <li>emergency operation mode</li> </ul>                                 | Yes  |
| <ul> <li>reversing operation</li> </ul>                                      | Yes  |
| <ul> <li>soft starting at heavy starting conditions</li> </ul>               | Yes  |
| Power Electronics  |  |
| operational current  |  |
| <ul> <li>at 40 °C rated value</li> </ul>                                     | 77 A   |
| <ul> <li>at 40 °C rated value minimum</li> </ul>                             | 16 A   |
| • at 50 °C rated value   | 68 A   |
| • at 60 °C rated value   | 62 A   |
| operational current at inside-delta circuit                                  |  |
| <ul> <li>at 40 °C rated value</li> </ul>                                     | 133 A  |
| • at 50 °C rated value   | 118 A  |
| • at 60 °C rated value   | 107 A  |
| operating voltage  |  |
| • rated value  | 200 480 V  |
| at inside-delta circuit rated value  | 200 480 V  |
| relative negative tolerance of the operating voltage                         | -15 %  |
| relative positive tolerance of the operating voltage                         | 10 %   |
| relative negative tolerance of the operating voltage at                      | -15 %  |
| inside-delta circuit   |  |
| relative positive tolerance of the operating voltage at inside-delta circuit | 10 %   |
| operating power for 3-phase motors   |  |
| <ul> <li>at 230 V at 40 °C rated value</li> </ul>                            | 22 kW  |
| <ul> <li>at 230 V at inside-delta circuit at 40 °C rated value</li> </ul>    | 37 kW  |
| <ul> <li>at 400 V at 40 °C rated value</li> </ul>                            | 37 kW  |
| <ul> <li>at 400 V at inside-delta circuit at 40 °C rated value</li> </ul>    | 75 kW  |
| Operating frequency 1 rated value  | 50 Hz  |
| Operating frequency 2 rated value  | 60 Hz  |
| relative negative tolerance of the operating frequency                       | -10 %  |
| relative positive tolerance of the operating frequency                       | 10 %   |
| minimum load [%]   | 10 %; Relative to set le   |
| power loss [W] for rated value of the current at AC                          |  |
| • at 40 °C after startup   | 23 W   |
| at 50 °C after startup   | 20 W   |
| • at 60 °C after startup   | 19 W   |
| power loss [W] at AC at current limitation 350 %                             |  |
| • at 40 °C during startup  | 1 083 W  |
| • at 50 °C during startup  | 921 W  |
| at 60 °C during startup  | 814 W  |
| type of the motor protection   | Electronic, tripping in the event of thermal overload of the motor |
| Control circuit/ Control   |  |
| type of voltage of the control supply voltage                                | AC/DC  |
| control supply voltage at AC   |  |
| • at 50 Hz rated value   | 24 V   |
| • at 60 Hz rated value   | 24 V   |
| relative negative tolerance of the control supply voltage at AC at 50 Hz     | -20 %  |
| relative positive tolerance of the control supply voltage at AC at 50 Hz     | 20 %   |
| relative negative tolerance of the control supply voltage at AC at 60 Hz     | -20 %  |
| relative positive tolerance of the control supply voltage at AC at 60 Hz     | 20 %   |
|  | 50 60 Hz   |
| control supply voltage frequency   |  |
| relative negative tolerance of the control supply voltage frequency          | -10 %<br>-   |
| relative positive tolerance of the control supply voltage frequency          | 10 %   |
| control supply voltage   |  |
|  |  |

| e al DC riedet value relative negative tolerance of the control supply voltage at DC relative periodic tolerance of the control supply voltage at DC control supply current in standby mode rated value holding current in bypass operation rated value fursh current peak at application of control supply voltage maximum runsh current peak at application of control supply voltage maximum runsh current peak at application of control supply voltage maximum runsh current peak at application of control supply voltage design of the overvoltage protection design of short-circuit protection for control circuit elseging of short-circuit protection for control circuit  • number of digital inputs • number of digital inputs • number of digital outputs • number of digital outputs parameterizable • number of digital outputs parameterizable • number of digital outputs parameterizable • number of digital outputs not parameterizable • number of digital outputs parameterizable • number of allog outputs • al AC-15 at 250 v rated value • al CO-13 at 24 V rated value • localization mounting dimensions  mounting position  feating method • soew forting • conversion • con |   |   |
|--|---|---|
| pc distive tolerance of the control supply voltage at DC control supply current in standby mode rated value  | at DC rated value   | 24 V  |
| Control supply current in standby mode rated value    holding current in bycass operation rated value   holding current in bycass operation rated value   mush current by closing the bypass contacts maximum   imush current peak at application of control supply voltage   movement   design of involvement peak at application of control supply voltage   design of the overvoltage protection   Variation  |   | -20 %   |
| Incidence current by closing the bypase operation rated value   6.3 A   6.3    |   | 20 %  |
| Inrush current by closing the bypass contacts maximum  Inrush current peck at application of control supply voltage maximum  duration of inrush current peak at application of control supply voltage design of the overvoltage protection  design of short-circuit protection for control circuit  protection of the overvoltage protection  design of short-circuit protection for control circuit  protection of the overvoltage protection  design of short-circuit protection for control circuit  protection of the overvoltage protection  design of short-circuit protection for control circuit  protection of the overvoltage protection  design of short-circuit protection for control circuit  protection of the overvoltage protection  design of short-circuit protection for control circuit  protection of the overvoltage protection  design of short-circuit protection for control circuit  protection of the overvoltage protection  at A 2,5 fisse (ficu=1 kA), 6 A quick-acting fuse (ficu=1 kA), C1 ministure circuit breaker (cu= 300 A), is not part of some protection of supply  (protection of supply)  (protection of the overvoltage of supply)  (protection of digital outputs  a number | control supply current in standby mode rated value            | 440 mA  |
| trush current peak at application of control supply voltage maximum duration of insush current peak at application of control supply voltage design of the overvoltage protection design of short-circuit protection for control circuit breaker (lou- 600 A), C6 ministure circuit breaker (lou- 300 A), 1s not part of scape of supply for the control circuit breaker (lou- 600 A), C6 ministure circuit breaker (lou- 300 A), 1s not part of scape of supply for the control circuit breaker (lou- 500 A), C6 ministure circuit breaker (lou- 300 A), 1s not part of scape of supply for some of digital inputs 4  • parameterizable 4  • number of digital outputs 4  • number of digital outputs parameterizable 3  • number of digital outputs parameterizable 1  • number of digital outputs not parameterizable 1  • number of digital outputs not parameterizable 1  • number of application of parameterizable 3  • number of application of parameterizable 1  • number of application of parameterizable 3  • number of application of parameterizable 1  • number of application of parameterizable 3  • number of digital outputs not parameterizable 1  • number of digital outputs not parameterizable 3  • number of digital outputs not parameterizable 1  • number of digital outputs number number number nu | holding current in bypass operation rated value               | 870 mA  |
| maximum duration of insush current peak at application of control supply voltage design of the overvoltage protection design of the overvoltage protection design of short-circuit protection for control circuit  mumber of digital inputs  number of digital inputs  number of digital outputs  number of digital outputs  number of digital outputs  number of digital outputs parameterizable  number of digital outputs  number of analog outputs  number of digital outputs were on a control of the relay outputs  number of analog outputs  number of analog outputs  number of analog outputs  number of digital outputs on parameterizable  number of digital outputs  number of digital outputs | inrush current by closing the bypass contacts maximum         | 6.3 A   |
| voltage design of the overvoltage protection design of short-circuit protection for control circuit  protection for control circuit protection for control for protection for for minion contacts for box terminal using the front circuit protection for control for contro | 1 11 117 0  | 7.5 A   |
| design of short-circuit protection for control circuit  protest Outputs  number of digital inputs  number of digital outputs  number of digital outputs parameterizable  number of digital outputs on parameterizable  number of analog outputs  number of digital outputs on parameterizable  number of digital outputs  number of digita outputs  number of digita outputs  number of digital outputs and number onalog number ont |   | 20 ms   |
| breaker (cu= 500 A), C6 miniature circuit breaker (cu= 300 A); Is not part of soope of supply  number of digital inputs  | design of the overvoltage protection                          | Varistor  |
| number of digital inputs  • parameterizable  • number of digital outputs  • number of digital outputs parameterizable  • number of digital outputs parameterizable  • number of digital outputs not parameterizable  digital output version  number of analog outputs  • at AC-15 at 250 V rated value  • at DC-13 at 24 V rated value  • at DC-15 at 25 DV rated value  • at DC-15 at 25 DV rated value  • at DC-15 at 25 DV rated value  • at DC-15 at 26 DV rated value  •  | design of short-circuit protection for control circuit        | breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of |
| • number of digital outputs     • number of digital outputs parameterizable     • number of digital outputs not parameterizable     • number of digital outputs not parameterizable     digital output varsion     number of analog outputs     1     digital output varsion     number of analog outputs     1     switching capacity current of the relay outputs     • at AC-15 at 250 V rated value     • at AC-15 at 250 V rated value     1 A     Installation/mounting/dimensions     mounting position     Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°)     fastening method     screw fixing     height     306 mm     width     485 mm      depth     203 mm  required spacing with side-by-side mounting     • forwards     • backwards     0 mm     • upwards     • downwards     • downwards     • downwards     • at the side     4 mw     weight without packaging     7.15 kg  Connections/ Torminals  type of electrical connection     • for main current circuit     • for ornection circuit     with conductor cross-section = 0.5 mm² maximum     • with conductor cross-section = 0.5 mm² maximum     • with conductor cross-section = 1.5 mm² maximum     • with conductor cross-sections     • for main contacts for box terminal using the front clamping point finally stranded with core end processing     • for main contacts for box terminal using the front clamping point finally stranded with core end processing     • for main contacts for tox terminal using the front clamping point finally stranded with core end processing     • for main contacts for tox terminal using the front clamping point finally stranded with core end processing     • for main contacts for tox terminal using the front clamping point finally stranded with core end processing     • for main contacts for tox terminal using the front clamping point finally stranded with core end processing     • for main contacts for tox terminal using the front clamping point finally stranded with core end processing     • for main contacts for tox terminal usi      | Inputs/ Outputs   |   |
| • number of digital outputs     • number of digital outputs parameterizable     • number of digital outputs not parameterizable     • number of digital outputs not parameterizable     • number of analog outputs     • at AC-15 at 250 V rated value     • at AC-15 at 250 V rated value     • at DC-13 at 24 V rated value     • at DC-13 at 24 V rated value     • at DC-13 at 24 V rated value     • at DC-13 at 250 V rated value     • at DC-13 at 24 V rated value     • at DC-13 at 250 V rated value     • at DC-13 at 250 V rated value     • at DC-13 at 24 V rated value     • at DC-13 at 25 a      | number of digital inputs                                      | 4   |
| • number of digital outputs not parameterizable • number of digital outputs not parameterizable digital output version  number of analog outputs  1  switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value 1 A  Installation/ mounting/ dimensions  mounting position  Fastening method screw fixing height width 185 mm  depth 203 mm  required spacing with side-by-side mounting • forwards • upwards • at the side • at the side • at the side  weight without packaging 7.15 kg  Connection St Terminals  type of electrical connection • with conductor cross-section = 1.5 mm² maximum • with conductor cross-section = 2.5 mm² maximum • with conductor cross-sections • for main contacts for box terminal using the front clamping point solid • for main contacts for box terminal using the front clamping point finely stranded with core end processing • for main contacts for box terminal using the front clamping point finely stranded with core end processing • for main contacts for box terminal using the front clamping point finely stranded with core end processing • for main contacts for box terminal using the front clamping point finely stranded with core end processing • for main contacts for box terminal using the front clamping point finely stranded with core end processing • for main contacts for box terminal using the front clamping point finely stranded with core end processing • for main contacts for box terminal using the front clamping point finely stranded with core end processing • for   | parameterizable   | 4   |
| • number of digital outputs parameterizable     • number of digital outputs not parameterizable digital output version number of analog outputs  switching capacity current of the relay outputs     • at AC-15 at 250 V rated value     • at DC-13 at 24 V rated value     • at DC-13 at 250 V rated value     • at DC-13 at 24 V rat      |   |   |
| Implement of digital outputs not parameterizable digital output version number of analog outputs     at AC-15 at 250 v rated value     at BC-13 at 24 V rated value     acrew fixing     at BC-13 at 24 V rated value     at BC-13 at 24 V rated value at AC-12 S rate at 25 V rate value     at BC-13 at 24 V rate value     at BC-1      | number of digital outputs                                     | 4   |
| digital output version number of analog outputs switching capacity current of the relay outputs  • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value   hatallation/ mounting/ dimensions   mounting position   Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°)   | <ul> <li>number of digital outputs parameterizable</li> </ul> | 3   |
| digital output version number of analog outputs switching capacity current of the relay outputs  • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value   hatallation/ mounting/ dimensions   mounting position   Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°)   | • number of digital outputs not parameterizable               | 1   |
| switching capacity current of the relay outputs  • at AC-15 at 250 V rated value  • at DC-13 at 24 V rated value  1 A  Installation/ mounting/ dimensions  mounting position  Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°)  fastening method  screw fixing  height  306 mm  width  4185 mm  depth  203 mm  required spacing with side-by-side mounting  • forwards  • backwards  • o mm  • upwards  • downwards  • downwards  • at the side  weight without packaging  Connections/ Terminals  type of electrical connection  • for main current circuit  • for control circuit  • for control circuit  • for control circuit  • with conductor cross-section = 1.5 mm² maximum  • with conductor cross-section = 2.5 mm² maximum  • for main contacts for box terminal using the front clamping point finely stranded with core end processing  • for main contacts for box terminal using the front clamping point finely stranded with core end processing  • for main contacts for box terminal using the front flamping point finely stranded with core end processing  • for main contacts for box terminal using the front flamping point finely stranded with core end processing                      |   | 3 normally-open contacts (NO) / 1 changeover contact (CO)                       |
| switching capacity current of the relay outputs  • at AC-15 at 250 V rated value  • at DC-13 at 24 V rated value  Installation/ mounting/ dimensions  mounting position  Vertical (can be rotated */- 90° and tilted forward or backward */- 22.5°)  fastening method  height  306 mm  width  depth  203 mm  required spacing with side-by-side mounting  • forwards  • packwards  • outpwards  • downwards  • downwards  • downwards  • downwards  • at the side  weight without packaging  Connections/ Terminals  type of electrical connection  • for main current circuit  • for control circuit  • for control circuit  • for control circuit  • with conductor cross-section = 1.5 mm² maximum  • with conductor cross-section = 2.5 mm² maximum  • for main contacts for box terminal using the front clamping point finely stranded with core end processing  • for main contacts for box terminal using the front clamping point finely stranded with core end processing  • for main contacts for box terminal using the front family stranded with core end processing  • for main contacts for box terminal using the front family stranded with core end processing  • for main contacts for box terminal using the front family stranded with core end processing               | number of analog outputs                                      | 1   |
| at AC-15 at 250 V rated value at DC-13 at 24 V rated value bratalation/ mounting y dimensions  mounting position Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) fastening method screw fixing height 306 mm width depth 203 mm required spacing with side-by-side mounting forwards backwards backwards backwards backwards buywards downwards t the side suppards t at the side suppards type of electrical connection for control circuit for control circuit with conductor cross-section = 0.5 mm² maximum with conductor cross-section = 1.5 mm² maximum of ror main cornects for box terminal using the front clamping point solid for main contacts for box terminal using the front clamping point solid for main contacts for box terminal using the front clamping point folid for main contacts for box terminal using the front clamping point folid for main contacts for box terminal using the front clamping point folid for main contacts for box terminal using the front clamping point folid for main contacts for box terminal using the front clamping point filely stranded with core end processing for main contacts for box terminal using the front lamping point filely stranded with core end processing for main contacts for box terminal using the front lamping point filely stranded with core end processing for main contacts for box terminal using the front lamping point filely stranded with core end processing for main contacts for box terminal using the front lamping point file for the formal contacts for box terminal using the front lamping point file for the formal contacts for box terminal using the front lamping point file formal using the front lamping point file formal using the front lamping point file formal using the formal lamping the  |   |   |
| • at DC-13 at 24 V rated value 1 A Installation/ mounting/ dimensions  mounting position Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) fastening method screw fixing height 306 mm width 185 mm depth 203 mm required spacing with side-by-side mounting • forwards 100 mm • backwards 0 mm • upwards 100 mm • downwards 75 mm • at the side 5 mm weight without packaging 7.15 kg  Connections/ Terminals  type of electrical connection • for main current circuit spring-loaded terminals width of connection bar maximum 25 mm wire length for thermistor connection • with conductor cross-section = 0.5 mm² maximum • with conductor cross-section = 0.5 mm² maximum • with conductor cross-section = 1.5 mm² maximum • with conductor cross-section = 2.5 mm² maximum • with conductor cross-section = 1.5 mm² maximum • with conductor cross-section = 2.5 mm² maximum • with conductor cross-section = 2.5 mm² maximum • with conductor cross-section = 1.5 mm² maximum • with conductor cross-section = 2.5 mm² maximum • with conductor cross-section = 1.5 mm² maximum  150 m • for main contacts for box terminal using the front clamping point finely stranded with core end processing • for main contacts for box terminal using the front clamping point finely stranded with core end processing • for main contacts for box terminal using the front (almping point finely stranded with core end processing • for main contacts for box terminal using the front (almping point finely stranded with core end pro |   | 3 A   |
| mounting position  fastening method  height  sorew fixing  186 mm  depth  required spacing with side-by-side mounting  • forwards  • upwards  • downwards  • at the side  weight without packaging  Connections/ Terminals  type of electrical connection  • for control circuit  • for control circuit  • for control circuit  • with conductor cross-section = 1.5 mm² maximum  • with conductor cross-section = 2.5 mm² maximum  • with conductor cross-section = 2.5 mm² maximum  • with conductor cross-section = 2.5 mm² maximum  • for main contacts for box terminal using the front clamping point finely stranded with core end processing  • for main contacts for box terminal using the front clamping point finely stranded with core end processing  • for main contacts for box terminal using the front clamping point finely stranded with core end processing  • for main contacts for box terminal using the front clamping point finely stranded with core end processing  • for main contacts for box terminal using the front clamping point finely stranded with core end processing  • for main contacts for box terminal using the front clamping point finely stranded with core end processing  • for main contacts for box terminal using the front clamping point finely stranded with core end processing  • for main contacts for box terminal using the front clamping point finely stranded with core end processing  • for main contacts for box terminal using the front tarminal using the | at DC-13 at 24 V rated value                                  | 1 A   |
| mounting position  Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°)  fastening method  beight  306 mm  width  485 mm  depth  203 mm  required spacing with side-by-side mounting  • forwards  • backwards  • upwards  • upwards  • downwards  • downwards  • at the side  5 mm  weight without packaging  Connections/ Terminals  type of electrical connection  • for main current circuit  • for control circuit  with conductor cross-section = 0.5 mm² maximum  • with conductor cross-section = 2.5 mm² maximum  • for main contacts for box terminal using the front clamping point solid  • for main contacts for box terminal using the front clamping point finely stranded with core end processing  • for main contacts for box terminal using the front clamping point finely stranded with core end processing  • for main contacts for box terminal using the front clamping point finely stranded with core end processing  • for main contacts for box terminal using the front clamping point finely stranded with core end processing  • for main contacts for box terminal using the front  |   |   |
| fastening method height 306 mm  width 40pth 185 mm 40pth 203 mm required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side • at the side weight without packaging 75 mm • at the side weight without packaging 7.15 kg  Connections/ Terminals type of electrical connection • for main current circuit • for control circuit width of connection bar maximum wire length for thermistor connection • with conductor cross-section = 0.5 mm² maximum • with conductor cross-section = 2.5 mm² maximum • for main contacts for box terminal using the front clamping point solid • for main contacts for box terminal using the front clamping point finely stranded with core end processing • for main contacts for box terminal using the front clamping point finely stranded with core end processing • for main contacts for box terminal using the front clamping point finely stranded with core end processing • for main contacts for box terminal using the front clamping point finely stranded with core end processing • for main contacts for box terminal using the front  |   | Vertical (can be rotated ±/- 90° and tilted forward or backward ±/- 22.5°)      |
| Neight width   185 mm   185 mm   203    |   | ·   |
| width 185 mm  depth 203 mm  required spacing with side-by-side mounting  |   | ,   |
| depth required spacing with side-by-side mounting  • forwards • backwards • upwards • downwards • at the side  weight without packaging  Connections/ Terminals  type of electrical connection • for main current circuit • for control circuit width of connection bar maximum  wire length for thermistor connection • with conductor cross-section = 0.5 mm² maximum • with conductor cross-section = 2.5 mm² maximum  with conductor cross-section = 2.5 mm² maximum  type of connectable conductor cross-sections • for main contacts for box terminal using the front clamping point finely stranded with core end processing • for main contacts for box terminal using the front clamping point finely stranded with core end processing • for main contacts for box terminal using the front clamping point finely stranded with core end processing • for main contacts for box terminal using the front clamping point finely stranded with core end processing • for main contacts for box terminal using the front clamping point finely stranded with core end processing • for main contacts for box terminal using the front clamping point finely stranded with core end processing • for main contacts for box terminal using the front clamping point finely stranded with core end processing • for main contacts for box terminal using the front clamping point finely stranded with core end processing • for main contacts for box terminal using the front clamping point finely stranded with core end processing • for main contacts for box terminal using the front clamping point finely stranded with core end processing • for main contacts for box terminal using the front clamping point finely stranded with core end processing • for main contacts for box terminal using the front clamping point finely stranded with core end processing • for main contacts for box terminal using the front clamping point finely stranded with core end processing • for main contacts for box terminal using the front   |   |   |
| required spacing with side-by-side mounting  • forwards  • backwards  • upwards  • downwards  • at the side  weight without packaging  Connections/ Terminals  type of electrical connection  • for main current circuit  • for control circuit  width of connection bar maximum  wire length for thermistor connection  • with conductor cross-section = 0.5 mm² maximum  • with conductor cross-section = 2.5 mm² maximum  • with conductor cross-section = 2.5 mm² maximum  • for onnectable conductor cross-sections  • for main contacts for box terminal using the front clamping point finely stranded with core end processing  • for main contacts for box terminal using the front clamping point finely stranded with core end processing  • for main contacts for box terminal using the front clamping point finely stranded with core end processing  • for main contacts for box terminal using the front clamping point finely stranded with core end processing  • for main contacts for box terminal using the front clamping point finely stranded with core end processing  • for main contacts for box terminal using the front clamping point finely stranded with core end processing  • for main contacts for box terminal using the front clamping point finely stranded with core end processing  • for main contacts for box terminal using the front clamping point finely stranded with core end processing  • for main contacts for box terminal using the front clamping point finely stranded with core end processing   |   |   |
| • forwards • backwards • backwards • upwards • downwards • at the side • at the side • formain contacts for box terminal using the front clamping point finely stranded with core end processing • for main contacts for box terminal using the front clamping point finely stranded with core end processing • for main contacts for box terminal using the front clamping point finely stranded with core end processing • for main contacts for box terminal using the front clamping point finely stranded with core end processing • for main contacts for box terminal using the front clamping point finely stranded with core end processing • for main contacts for box terminal using the front clamping point finely stranded with core end processing • for main contacts for box terminal using the front clamping point finely stranded with core end processing • for main contacts for box terminal using the front clamping point finely stranded with core end processing • for main contacts for box terminal using the front clamping point finely stranded with core end processing • for main contacts for box terminal using the front clamping point finely stranded with core end processing • for main contacts for box terminal using the front clamping point finely stranded with core end processing • for main contacts for box terminal using the front clamping point finely stranded with core end processing  | ·   | 203 111111  |
| backwards     upwards     upwards     downwards     at the side     smm  weight without packaging     7.15 kg  Connections/ Terminals  type of electrical connection     for main current circuit     for control circuit     individual of connection bar maximum     with conductor cross-section = 0.5 mm² maximum     with conductor cross-section = 1.5 mm² maximum     with conductor cross-section = 2.5 mm² maximum     with conductor cross-section = 2.5 mm² maximum     with conductor cross-section = 2.5 mm² maximum     for main contacts for box terminal using the front clamping point solid     for main contacts for box terminal using the front clamping point finely stranded with core end processing     for main contacts for box terminal using the front clamping point finely stranded with core end processing     for main contacts for box terminal using the front clamping point finely stranded with core end processing     for main contacts for box terminal using the front clamping point finely stranded with core end processing     for main contacts for box terminal using the front clamping point finely stranded with core end processing     for main contacts for box terminal using the front clamping point finely stranded with core end processing     for main contacts for box terminal using the front clamping point finely stranded with core end processing     for main contacts for box terminal using the front clamping point finely stranded with core end processing  |   | 10 mm   |
| <ul> <li>upwards</li> <li>downwards</li> <li>at the side</li> <li>5 mm</li> <li>weight without packaging</li> <li>7.15 kg</li> </ul> Connections/ Terminals type of electrical connection <ul> <li>for main current circuit</li> <li>for control circuit</li> <li>for control circuit</li> <li>width of connection bar maximum</li> <li>wire length for thermistor connection</li> <li>with conductor cross-section = 0.5 mm² maximum</li> <li>with conductor cross-section = 1.5 mm² maximum</li> <li>with conductor cross-section = 2.5 mm² maximum</li> <li>with conductor cross-section = 2.5 mm² maximum</li> <li>or main contacts for box terminal using the front clamping point solid</li> <li>for main contacts for box terminal using the front clamping point finely stranded with core end processing</li> <li>for main contacts for box terminal using the front clamping point finely stranded with core end processing</li> <li>for main contacts for box terminal using the front clamping point finely stranded with core end processing</li> <li>for main contacts for box terminal using the front clamping point finely stranded with core end processing</li> <li>for main contacts for box terminal using the front clamping point finely stranded with core end processing</li> <li>for main contacts for box terminal using the front clamping point finely stranded with core end processing</li> <li>for main contacts for box terminal using the front</li> <li>for main contacts for box terminal using the front</li> <li>for main contacts for box terminal using the front</li> <li>for main contacts for box terminal using the front</li> <li>for main contacts for box terminal using the front</li> <li>for main contacts for box terminal using the front</li> <li>for main contacts for box terminal using the front</li> <li>for main contacts for box terminal using the front</li> <li>for main contacts for box terminal using the front</li> <li>for main contacts for box terminal using the front</li> <li>for main contacts for box terminal using the front</li> &lt;</ul>       |   |   |
| <ul> <li>downwards</li> <li>at the side</li> <li>5 mm</li> <li>weight without packaging</li> <li>7.15 kg</li> </ul> Connections/ Terminals type of electrical connection <ul> <li>for main current circuit</li> <li>for control circuit</li> <li>spring-loaded terminals</li> </ul> width of connection bar maximum <ul> <li>25 mm</li> </ul> wire length for thermistor connection <ul> <li>with conductor cross-section = 0.5 mm² maximum</li> <li>with conductor cross-section = 1.5 mm² maximum</li> <li>with conductor cross-section = 2.5 mm² maximum</li> <li>with conductor cross-section = 2.5 mm² maximum</li> <li>for main contacts for box terminal using the front clamping point solid</li> <li>for main contacts for box terminal using the front clamping point finely stranded with core end processing</li> <li>for main contacts for box terminal using the front clamping point finely stranded with core end processing</li> <li>for main contacts for box terminal using the front</li> <li>clamping point finely stranded with core end processing</li> <li>for main contacts for box terminal using the front</li> <li>clamping point finely stranded with core end processing</li> <li>for main contacts for box terminal using the front</li> <li>clamping point finely stranded with core end processing</li> <li>for main contacts for box terminal using the front</li> <li>clamping point finely stranded with core end processing</li> </ul>  |   |   |
| weight without packaging     7.15 kg  Connections/ Terminals  type of electrical connection     • for main current circuit   | ·   |   |
| weight without packaging  Connections/ Terminals  type of electrical connection  • for main current circuit  • for control circuit  width of connection bar maximum  wire length for thermistor connection  • with conductor cross-section = 0.5 mm² maximum  • with conductor cross-section = 1.5 mm² maximum  • with conductor cross-section = 2.5 mm² maximum  • for main contacts for box terminal using the front clamping point solid  • for main contacts for box terminal using the front clamping point finely stranded with core end processing  • for main contacts for box terminal using the front clamping point finely stranded with core end processing  • for main contacts for box terminal using the front clamping point finely stranded with core end processing  • for main contacts for box terminal using the front clamping point finely stranded with core end processing  |   |   |
| type of electrical connection  • for main current circuit  • for control circuit  width of connection bar maximum  e with conductor cross-section = 0.5 mm² maximum  • with conductor cross-section = 1.5 mm² maximum  • with conductor cross-section = 2.5 mm² maximum  • with conductor cross-section = 2.5 mm² maximum  • with conductor cross-sections  • for main contacts for box terminal using the front clamping point finely stranded with core end processing  • for main contacts for box terminal using the front clamping point finely stranded with core end processing  • for main contacts for box terminal using the front  clamping point finely stranded with core end processing  • for main contacts for box terminal using the front  clamping point finely stranded with core end processing  • for main contacts for box terminal using the front  1x (2.5 50 mm²)  |   |   |
| type of electrical connection  • for main current circuit  • for control circuit  spring-loaded terminals  width of connection bar maximum  25 mm  wire length for thermistor connection  • with conductor cross-section = 0.5 mm² maximum  • with conductor cross-section = 1.5 mm² maximum  • with conductor cross-section = 2.5 mm² maximum  • with conductor cross-section = 2.5 mm² maximum  250 m  type of connectable conductor cross-sections  • for main contacts for box terminal using the front clamping point solid  • for main contacts for box terminal using the front clamping point finely stranded with core end processing  • for main contacts for box terminal using the front  clamping point finely stranded with core end processing  • for main contacts for box terminal using the front  1x (2.5 50 mm²)   |   | 7.15 kg   |
| <ul> <li>for main current circuit</li> <li>for control circuit</li> <li>spring-loaded terminals</li> <li>width of connection bar maximum</li> <li>wire length for thermistor connection</li> <li>with conductor cross-section = 0.5 mm² maximum</li> <li>with conductor cross-section = 1.5 mm² maximum</li> <li>with conductor cross-section = 2.5 mm² maximum</li> <li>with conductor cross-section = 2.5 mm² maximum</li> <li>for main contacts for box terminal using the front clamping point solid</li> <li>for main contacts for box terminal using the front clamping point finely stranded with core end processing</li> <li>for main contacts for box terminal using the front</li> <li>clamping point finely stranded with core end processing</li> <li>for main contacts for box terminal using the front</li> <li>1x (2.5 50 mm²)</li> <li>1x (2.5 50 mm²)</li> </ul>   |   |   |
| <ul> <li>for control circuit</li> <li>width of connection bar maximum</li> <li>wire length for thermistor connection</li> <li>with conductor cross-section = 0.5 mm² maximum</li> <li>with conductor cross-section = 1.5 mm² maximum</li> <li>with conductor cross-section = 2.5 mm² maximum</li> <li>with conductor cross-section = 2.5 mm² maximum</li> <li>type of connectable conductor cross-sections</li> <li>for main contacts for box terminal using the front clamping point solid</li> <li>for main contacts for box terminal using the front clamping point finely stranded with core end processing</li> <li>for main contacts for box terminal using the front</li> <li>clamping point finely stranded with core end processing</li> <li>for main contacts for box terminal using the front</li> <li>1x (2.5 50 mm²)</li> <li>1x (2.5 50 mm²)</li> <li>1x (10 70 mm²)</li> </ul>  | type of electrical connection                                 |   |
| width of connection bar maximum  wire length for thermistor connection  with conductor cross-section = 0.5 mm² maximum  with conductor cross-section = 1.5 mm² maximum  with conductor cross-section = 2.5 mm² maximum  with conductor cross-section = 2.5 mm² maximum  type of connectable conductor cross-sections  for main contacts for box terminal using the front clamping point solid  for main contacts for box terminal using the front clamping point finely stranded with core end processing  for main contacts for box terminal using the front clamping point finely stranded with core end processing  for main contacts for box terminal using the front to main contacts for box terminal using the fr | for main current circuit                                      | box terminal  |
| wire length for thermistor connection  • with conductor cross-section = 0.5 mm² maximum  • with conductor cross-section = 1.5 mm² maximum  • with conductor cross-section = 2.5 mm² maximum  • with conductor cross-section = 2.5 mm² maximum  250 m  type of connectable conductor cross-sections  • for main contacts for box terminal using the front clamping point solid  • for main contacts for box terminal using the front clamping point finely stranded with core end processing  • for main contacts for box terminal using the front clamping point finely stranded with core end processing  • for main contacts for box terminal using the front  1x (2.5 50 mm²)  1x (10 70 mm²)   | • for control circuit   | spring-loaded terminals   |
| <ul> <li>with conductor cross-section = 0.5 mm² maximum</li> <li>with conductor cross-section = 1.5 mm² maximum</li> <li>with conductor cross-section = 2.5 mm² maximum</li> <li>type of connectable conductor cross-sections</li> <li>for main contacts for box terminal using the front clamping point solid</li> <li>for main contacts for box terminal using the front clamping point finely stranded with core end processing</li> <li>for main contacts for box terminal using the front clamping point finely stranded with core end processing</li> <li>for main contacts for box terminal using the front</li> <li>1x (2.5 50 mm²)</li> <li>1x (10 70 mm²)</li> </ul>   | width of connection bar maximum                               | 25 mm   |
| <ul> <li>with conductor cross-section = 1.5 mm² maximum</li> <li>with conductor cross-section = 2.5 mm² maximum</li> <li>type of connectable conductor cross-sections</li> <li>for main contacts for box terminal using the front clamping point solid</li> <li>for main contacts for box terminal using the front clamping point finely stranded with core end processing</li> <li>for main contacts for box terminal using the front clamping point finely stranded with core end processing</li> <li>for main contacts for box terminal using the front</li> <li>1x (2.5 16 mm²)</li> <li>1x (2.5 50 mm²)</li> <li>1x (2.5 70 mm²)</li> </ul>   | wire length for thermistor connection                         |   |
| <ul> <li>with conductor cross-section = 2.5 mm² maximum</li> <li>type of connectable conductor cross-sections</li> <li>for main contacts for box terminal using the front clamping point solid</li> <li>for main contacts for box terminal using the front clamping point finely stranded with core end processing</li> <li>for main contacts for box terminal using the front</li> <li>for main contacts for box terminal using the front</li> <li>1x (2.5 16 mm²)</li> <li>1x (2.5 50 mm²)</li> <li>1x (10 70 mm²)</li> </ul>  | • with conductor cross-section = 0.5 mm² maximum              | 50 m  |
| type of connectable conductor cross-sections  • for main contacts for box terminal using the front clamping point solid  • for main contacts for box terminal using the front clamping point finely stranded with core end processing  • for main contacts for box terminal using the front 1x (10 70 mm²)   | • with conductor cross-section = 1.5 mm² maximum              | 150 m   |
| <ul> <li>for main contacts for box terminal using the front clamping point solid</li> <li>for main contacts for box terminal using the front clamping point finely stranded with core end processing</li> <li>for main contacts for box terminal using the front</li> <li>1x (2.5 16 mm²)</li> <li>1x (2.5 50 mm²)</li> <li>1x (10 70 mm²)</li> </ul>  | • with conductor cross-section = 2.5 mm² maximum              | 250 m   |
| clamping point solid  • for main contacts for box terminal using the front clamping point finely stranded with core end processing  • for main contacts for box terminal using the front 1x (10 70 mm²)  | type of connectable conductor cross-sections                  |   |
| of clamping point finely stranded with core end processing  of or main contacts for box terminal using the front  1x (10 70 mm²)   |   | 1x (2.5 16 mm²)   |
|  |   | 1x (2.5 50 mm²)   |
|  | · ·   | 1x (10 70 mm²)  |
| • for main contacts for box terminal using the back clamping point solid  1x (2.5 16 mm²)  |   | 1x (2.5 16 mm²)   |
| • for AWG cables for main contacts for box terminal using the back clamping point  1x (10 2/0)   | · · · · · · · · · · · · · · · · · · ·                         | 1x (10 2/0)   |
| • for main contacts for box terminal using both clamping points solid 2x (2.5 16 mm²)  |   | 2x (2.5 16 mm²)   |
| • for main contacts for box terminal using both clamping 2x (2.5 35 mm²)   | • for main contacts for box terminal using both clamping      | 2x (2.5 35 mm²)   |

| points finally atranded with core and processing  |   |
|---|---|
| points finely stranded with core end processing   | 2x (6 16 mm²), 2x (10 50 mm²)   |
| <ul> <li>for main contacts for box terminal using both clamping<br/>points stranded</li> </ul>  |   |
| <ul> <li>for main contacts for box terminal using the back<br/>clamping point finely stranded with core end processing</li> </ul>   | 1x (2.5 50 mm²)   |
| <ul> <li>for main contacts for box terminal using the back<br/>clamping point stranded</li> </ul>   | 1x (10 70 mm²)  |
| type of connectable conductor cross-sections  |   |
| <ul> <li>for control circuit solid</li> </ul>   | 2x (0.25 1.5 mm²)   |
| <ul> <li>for control circuit finely stranded with core end processing</li> </ul>  | 2x (0.25 1.5 mm²)   |
| <ul> <li>for AWG cables for control circuit solid</li> </ul>  | 2x (24 16)  |
| <ul> <li>for AWG cables for control circuit finely stranded with<br/>core end processing</li> </ul>   | 2x (24 16)  |
| wire length   |   |
| <ul> <li>between soft starter and motor maximum</li> </ul>  | 800 m   |
| <ul> <li>at the digital inputs at DC maximum</li> </ul>   | 1 000 m   |
| tightening torque   |   |
| <ul> <li>for main contacts with screw-type terminals</li> </ul>   | 4.5 6 N·m   |
| <ul> <li>for auxiliary and control contacts with screw-type<br/>terminals</li> </ul>  | 0.8 1.2 N·m   |
| tightening torque [lbf·in]  |   |
| for main contacts with screw-type terminals   | 40 53 lbf-in  |
| for auxiliary and control contacts with screw-type terminals  | 7 10.3 lbf·in   |
| Ambient conditions  |   |
| installation altitude at height above sea level maximum   | 5 000 m; Derating as of 1000 m, see catalog   |
| ambient temperature   | 5 000 m, Detaing as or 1000 m, see catalog  |
| during operation  | -25 +60 °C; Please observe derating at temperatures of 40 °C or above   |
| during operation     during storage and transport   | -40 +80 °C  |
| environmental category  | -40 100 C   |
| 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  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)   |
| EMC emitted interference  | acc. to IEC 60947-4-2: Class A  |
| Communication/ Protocol   |   |
| communication module is supported   |   |
| PROFINET standard   | Yes   |
| PROFINET high-feature   | Yes   |
| EtherNet/IP   | Yes   |
| <ul> <li>Modbus RTU</li> </ul>  | Yes   |
|   | ies   |
| Modbus TCP  | Yes   |
| • PROFIBUS  |   |
|   | Yes   |
| • PROFIBUS  | Yes   |
| PROFIBUS  UL/CSA ratings  | Yes   |
| PROFIBUS  UL/CSA ratings  manufacturer's article number   | Yes   |
| <ul> <li>PROFIBUS</li> <li>UL/CSA ratings</li> <li>manufacturer's article number</li> <li>of circuit breaker</li> <li>usable for Standard Faults at 460/480 V according</li> </ul>  | Yes<br>Yes  |
| PROFIBUS  UL/CSA ratings  manufacturer's article number      of circuit breaker   | Yes<br>Yes<br>Siemens type: 3VA51, max. 125 A; Iq = 10 kA   |
| PROFIBUS  UL/CSA ratings  manufacturer's article number     of circuit breaker      usable for Standard Faults at 460/480 V according to UL      usable for High Faults at 460/480 V according to UL      usable for Standard Faults at 460/480 V at inside-  | Yes Yes  Siemens type: 3VA51, max. 125 A; lq = 10 kA  Siemens type: 3VA51, max. 125 A; lq max = 65 kA   |
| PROFIBUS  UL/CSA ratings  manufacturer's article number  of circuit breaker  usable for Standard Faults at 460/480 V according to UL  usable for High Faults at 460/480 V according to UL  usable for Standard Faults at 460/480 V at insidedelta circuit according to UL  usable for High Faults at 460/480 V at insidedelta circuit according to UL  usable for High Faults at 460/480 V at inside-delta  | Yes Yes  Siemens type: 3VA51, max. 125 A; Iq = 10 kA  Siemens type: 3VA51, max. 125 A; Iq max = 65 kA  Siemens type: 3VA51, max. 125 A; Iq = 10 kA  |
| PROFIBUS  UL/CSA ratings  manufacturer's article number  of circuit breaker  usable for Standard Faults at 460/480 V according to UL  usable for High Faults at 460/480 V according to UL  usable for Standard Faults at 460/480 V at insidedelta circuit according to UL  usable for High Faults at 460/480 V at insidedelta circuit according to UL  usable for High Faults at 460/480 V at insidedelta circuit according to UL  usable for Standard Faults at 575/600 V according  | Yes Yes  Siemens type: 3VA51, max. 125 A; Iq = 10 kA  Siemens type: 3VA51, max. 125 A; Iq max = 65 kA  Siemens type: 3VA51, max. 125 A; Iq max = 65 kA  Siemens type: 3VA51, max. 125 A; Iq max = 65 kA   |
| <ul> <li>◆ PROFIBUS</li> <li>UL/CSA ratings</li> <li>manufacturer's article number</li> <li>◆ of circuit breaker</li> <li>— usable for Standard Faults at 460/480 V according to UL</li> <li>— usable for High Faults at 460/480 V according to UL</li> <li>— usable for Standard Faults at 460/480 V at insidedelta circuit according to UL</li> <li>— usable for High Faults at 460/480 V at inside-delta circuit according to UL</li> <li>— usable for Standard Faults at 575/600 V according to UL</li> <li>— usable for High Faults at 575/600 V at inside-delta</li> </ul>  | Yes Yes  Siemens type: 3VA51, max. 125 A; Iq = 10 kA  Siemens type: 3VA51, max. 125 A; Iq max = 65 kA Siemens type: 3VA51, max. 125 A; Iq max = 65 kA Siemens type: 3VA51, max. 125 A; Iq max = 65 kA Siemens type: 3VA51, max. 125 A; Iq max = 65 kA   |
| <ul> <li>▶ PROFIBUS</li> <li>UL/CSA ratings</li> <li>manufacturer's article number</li> <li>♦ of circuit breaker</li> <li>— usable for Standard Faults at 460/480 V according to UL</li> <li>— usable for High Faults at 460/480 V according to UL</li> <li>— usable for Standard Faults at 460/480 V at insidedelta circuit according to UL</li> <li>— usable for High Faults at 460/480 V at inside-delta circuit according to UL</li> <li>— usable for Standard Faults at 575/600 V according to UL</li> <li>— usable for High Faults at 575/600 V at inside-delta circuit according to UL</li> <li>— usable for High Faults at 575/600 V at inside-delta circuit according to UL</li> <li>— usable for Standard Faults at 575/600 V at inside-</li> </ul>                 | Yes Yes  Siemens type: 3VA51, max. 125 A; Iq = 10 kA  Siemens type: 3VA51, max. 125 A; Iq max = 65 kA Siemens type: 3VA51, max. 125 A; Iq max = 65 kA Siemens type: 3VA51, max. 125 A; Iq max = 65 kA  Siemens type: 3VA51, max. 125 A; Iq max = 65 kA  Siemens type: 3VA51, max. 125 A; Iq max = 65 kA   |
| <ul> <li>▶ PROFIBUS</li> <li>UL/CSA ratings</li> <li>manufacturer's article number</li> <li>• of circuit breaker</li> <li>— usable for Standard Faults at 460/480 V according to UL</li> <li>— usable for High Faults at 460/480 V according to UL</li> <li>— usable for Standard Faults at 460/480 V at insidedelta circuit according to UL</li> <li>— usable for High Faults at 460/480 V at insidedelta circuit according to UL</li> <li>— usable for Standard Faults at 575/600 V according to UL</li> <li>— usable for High Faults at 575/600 V at insidedelta circuit according to UL</li> <li>— usable for Standard Faults at 575/600 V at insidedelta circuit according to UL</li> <li>• of the fuse</li> <li>— usable for Standard Faults up to 575/600 V</li> </ul> | Yes Yes  Siemens type: 3VA51, max. 125 A; Iq = 10 kA  Siemens type: 3VA51, max. 125 A; Iq max = 65 kA Siemens type: 3VA51, max. 125 A; Iq max = 65 kA Siemens type: 3VA51, max. 125 A; Iq max = 65 kA Siemens type: 3VA51, max. 125 A; Iq max = 65 kA Siemens type: 3VA51, max. 125 A; Iq max = 65 kA   |
| <ul> <li>▶ PROFIBUS</li> <li>UL/CSA ratings</li> <li>manufacturer's article number</li> <li>• of circuit breaker</li> <li>— usable for Standard Faults at 460/480 V according to UL</li> <li>— usable for High Faults at 460/480 V according to UL</li> <li>— usable for Standard Faults at 460/480 V at insidedelta circuit according to UL</li> <li>— usable for High Faults at 460/480 V at inside-delta circuit according to UL</li> <li>— usable for Standard Faults at 575/600 V according to UL</li> <li>— usable for High Faults at 575/600 V at inside-delta circuit according to UL</li> <li>— usable for Standard Faults at 575/600 V at inside-delta circuit according to UL</li> <li>• of the fuse</li> </ul>  | Yes Yes  Siemens type: 3VA51, max. 125 A; lq = 10 kA  Siemens type: 3VA51, max. 125 A; lq max = 65 kA  Siemens type: 3VA51, max. 125 A; lq max = 65 kA  Siemens type: 3VA51, max. 125 A; lq max = 65 kA  Siemens type: 3VA51, max. 125 A; lq max = 65 kA  Siemens type: 3VA51, max. 125 A; lq max = 65 kA  Siemens type: 3VA51, max. 125 A; lq max = 65 kA  Siemens type: 3VA51, max. 125 A; lq max = 65 kA |

| <ul> <li>usable for Standard Faults at inside-delta circuit up<br/>to 575/600 V according to UL</li> </ul>  | Type: Class RK5 / K5, max. 250 A; Iq = 10 kA   |
|---|--|
| <ul> <li>usable for High Faults at inside-delta circuit up to<br/>575/600 V according to UL</li> </ul>  | Type: Class J / L, max. 250 A; Iq = 100 kA   |
| operating power [hp] for 3-phase motors   |  |
| • at 200/208 V at 50 °C rated value   | 20 hp  |
| • at 220/230 V at 50 °C rated value   | 25 hp  |
| • at 460/480 V at 50 °C rated value   | 50 hp  |
| • at 200/208 V at inside-delta circuit at 50 °C rated value   | 30 hp  |
| • at 220/230 V at inside-delta circuit at 50 °C rated value   | 40 hp  |
| • at 460/480 V at inside-delta circuit at 50 °C rated value   | 75 hp  |
| contact rating of auxiliary contacts according to UL  | R300-B300  |
| Safety related data   |  |
| protection class IP on the front according to IEC 60529   | IP00; IP20 with cover  |
| touch protection on the front according to IEC 60529  | finger-safe, for vertical contact from the front with cover  |
| electromagnetic compatibility   | acc. to IEC 60947-4-2  |
|   |  |
| ATEX  |  |
| ATEX certificate of suitability   |  |
|   | Yes  |
| certificate of suitability  | Yes<br>Yes   |
| certificate of suitability  • ATEX  |  |
| certificate of suitability  • ATEX • IECEx  | Yes  |
| certificate of suitability  • ATEX  • IECEX  • according to ATEX directive 2014/34/EU   | Yes BVS 18 ATEX F 003 X II (2)G [Ex eb Gb] [Ex db Gb] [Ex pxb Gb], II (2)D [Ex tb Db] [Ex pxb Db], I (M2)                                  |
| certificate of suitability  • ATEX  • IECEX  • according to ATEX directive 2014/34/EU  type of protection according to ATEX directive 2014/34/EU  hardware fault tolerance according to IEC 61508 relating to   | Yes BVS 18 ATEX F 003 X II (2)G [Ex eb Gb] [Ex db Gb] [Ex pxb Gb], II (2)D [Ex tb Db] [Ex pxb Db], I (M2) [Ex db Mb]                       |
| certificate of suitability  • ATEX  • IECEX  • according to ATEX directive 2014/34/EU  type of protection according to ATEX directive 2014/34/EU  hardware fault tolerance according to IEC 61508 relating to ATEX  PFDavg with low demand rate according to IEC 61508  | Yes BVS 18 ATEX F 003 X II (2)G [Ex eb Gb] [Ex db Gb] [Ex pxb Gb], II (2)D [Ex tb Db] [Ex pxb Db], I (M2) [Ex db Mb] 0                     |
| certificate of suitability  • ATEX  • IECEX  • according to ATEX directive 2014/34/EU  type of protection according to ATEX directive 2014/34/EU  hardware fault tolerance according to IEC 61508 relating to ATEX  PFDavg with low demand rate according to IEC 61508 relating to ATEX  PFHD with high demand rate according to EN 62061 relating  | Yes BVS 18 ATEX F 003 X II (2)G [Ex eb Gb] [Ex db Gb] [Ex pxb Gb], II (2)D [Ex tb Db] [Ex pxb Db], I (M2) [Ex db Mb] 0 0.008               |
| certificate of suitability  • ATEX  • IECEX  • according to ATEX directive 2014/34/EU  type of protection according to ATEX directive 2014/34/EU  hardware fault tolerance according to IEC 61508 relating to ATEX  PFDavg with low demand rate according to IEC 61508 relating to ATEX  PFHD with high demand rate according to EN 62061 relating to ATEX  Safety Integrity Level (SIL) according to IEC 61508 relating  | Yes BVS 18 ATEX F 003 X II (2)G [Ex eb Gb] [Ex db Gb] [Ex pxb Gb], II (2)D [Ex tb Db] [Ex pxb Db], I (M2) [Ex db Mb] 0 0.008 5E-7 1/h      |
| certificate of suitability  • ATEX  • IECEX  • according to ATEX directive 2014/34/EU  type of protection according to ATEX directive 2014/34/EU  hardware fault tolerance according to IEC 61508 relating to ATEX  PFDavg with low demand rate according to IEC 61508 relating to ATEX  PFHD with high demand rate according to EN 62061 relating to ATEX  Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX  T1 value for proof test interval or service life according to | Yes BVS 18 ATEX F 003 X II (2)G [Ex eb Gb] [Ex db Gb] [Ex pxb Gb], II (2)D [Ex tb Db] [Ex pxb Db], I (M2) [Ex db Mb] 0 0.008 5E-7 1/h SIL1 |

**General Product Approval** 

Confirmation









**EMC** 

For use in hazardous locations

**Declaration of Con**formity

**Test Certificates** 

Marine / Shipping









Type Test Certificates/Test Report





Marine / Shipping





Confirmation

## Further information

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

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

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

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

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW5526-3HA04

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5526-3HA04

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5526-3HA04

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

Characteristic: Tripping characteristics, I2t, Let-through current

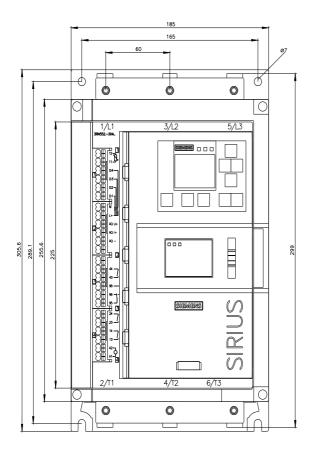
https://support.industry.siemens.com/cs/ww/en/ps/3RW5526-3HA04/char

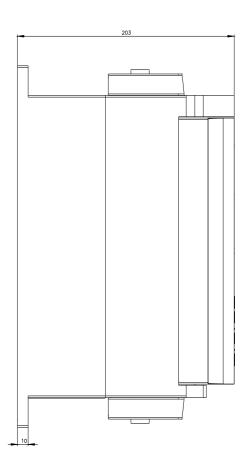
Characteristic: Installation altitude

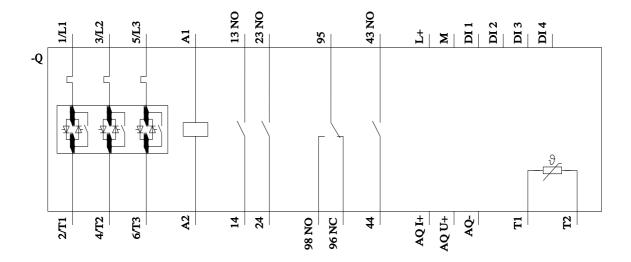
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5526-3HA04&objecttype=14&gridview=view1

Simulation Tool for Soft Starters (STS)

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







last modified: 8/10/2023 🖸

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