SIEMENS

Data sheet

3RW5226-1AC05



SIRIUS soft starter 200-600 V 77 A, 24 V AC/DC Screw terminals Analog output

| product brand name | SIRIUS |
|---|---|
| product category | Hybrid switching devices |
| product designation | Soft starter |
| product type designation | 3RW52 |
| manufacturer's article number | |
| of standard HMI module usable | <u>3RW5980-0HS00</u> |
| of high feature HMI module usable | <u>3RW5980-0HF00</u> |
| of communication module PROFINET standard usable | <u>3RW5980-0CS00</u> |
| of communication module PROFIBUS usable | <u>3RW5980-0CP00</u> |
| of communication module Modbus TCP usable | <u>3RW5980-0CT00</u> |
| of communication module Modbus RTU usable | <u>3RW5980-0CR00</u> |
| of communication module Ethernet/IP | <u>3RW5980-0CE00</u> |
| of circuit breaker usable at 400 V | <u>3VA2110-7MN32-0AA0;</u> Type of coordination 1, Iq = 65 kA, CLASS 10 |
| of circuit breaker usable at 500 V | <u>3VA2110-7MN32-0AA0;</u> Type of coordination 1, Iq = 20 kA, CLASS 10 |
| of circuit breaker usable at 400 V at inside-delta circuit | <u>3VA2216-7MN32-0AA0;</u> Type of coordination 1, Iq = 65 kA, CLASS 10 |
| of circuit breaker usable at 500 V at inside-delta circuit | <u>3VA2216-7MN32-0AA0;</u> Type of coordination 1, Iq = 20 kA, CLASS 10 |
| of the gG fuse usable up to 690 V | <u>3NA3132-6;</u> Type of coordination 1, Iq = 65 kA |
| of the gG fuse usable at inside-delta circuit up to 500 V | <u>3NA3132-6;</u> Type of coordination 1, Iq = 65 kA |
| of full range R fuse link for semiconductor protection usable up to 690 V | <u>3NE1224-0;</u> Type of coordination 2, Iq = 65 kA |
| of back-up R fuse link for semiconductor protection usable up to 690 V | <u>3NE8024-1;</u> Type of coordination 2, Iq = 65 kA |
| 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 | |
| CE marking | Yes |
| UL approval | Yes |
| CSA approval | Yes |
| product component | |
| HMI-High Feature | No |
| is supported HMI-Standard | Yes |
| is supported HMI-High Feature | Yes |
| product feature integrated bypass contact system | Yes |
| number of controlled phases | 3 |
| trip class | CLASS 10A (default) / 10E / 20E; acc. to IEC 60947-4-2 |
| buffering time in the event of power failure | |

| e for main ourront airquit | 100 ms |
|--|---|
| for main current circuit for control circuit | 100 ms |
| | 600 V |
| insulation voltage rated value | |
| degree of pollution | 3, acc. to IEC 60947-4-2 |
| impulse voltage rated value | 6 kV |
| blocking voltage of the thyristor maximum | 1 800 V |
| service factor | 1 |
| surge voltage resistance rated value | 6 kV |
| maximum permissible voltage for safe isolation | |
| between main and auxiliary circuit | 600 V |
| shock resistance | 15 g / 11 ms, from 12 g / 11 ms with potential contact lifting |
| vibration resistance | 15 mm to 6 Hz; 2g to 500 Hz |
| 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 | |
| ramp-up (soft starting) | Yes |
| ramp-down (soft stop) | Yes |
| Soft Torque | Yes |
| adjustable current limitation | Yes |
| • pump ramp down | Yes |
| intrinsic device protection | Yes |
| motor overload protection | Yes; Electronic motor overload protection |
| evaluation of thermistor motor protection | No |
| inside-delta circuit | Yes |
| • auto-RESET | Yes |
| • manual RESET | Yes |
| remote reset | Yes; By turning off the control supply voltage |
| communication function | Yes |
| operating measured value display | Yes; Only in conjunction with special accessories |
| | Yes; Only in conjunction with special accessories |
| error logbook | No |
| via software parameterizable | Yes |
| via software configurable | res |
| • | Very in second stars with the DDOEINET Other dead as recording tion |
| PROFlenergy | Yes; in connection with the PROFINET Standard communication module |
| PROFlenergy | module |
| PROFlenergy firmware update | module Yes |
| PROFlenergy firmware update removable terminal for control circuit | module Yes Yes |
| PROFlenergy firmware update removable terminal for control circuit torque control | module Yes Yes No |
| PROFlenergy firmware update removable terminal for control circuit | module Yes Yes |
| PROFlenergy firmware update removable terminal for control circuit torque control | module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature |
| PROFlenergy firmware update removable terminal for control circuit torque control analog output | module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature |
| PROFlenergy firmware update removable terminal for control circuit torque control analog output Power Electronics | module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature |
| PROFlenergy firmware update removable terminal for control circuit torque control analog output Power Electronics operational current | module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) |
| PROFlenergy firmware update removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value | module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 77 A |
| PROFlenergy firmware update removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value at 50 °C rated value at 60 °C rated value | module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 77 A 68 A |
| PROFlenergy firmware update removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value at 50 °C rated value | module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 77 A 68 A |
| PROFlenergy firmware update removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value at 50 °C rated value at 60 °C rated value at 60 °C rated value operational current at inside-delta circuit | module Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 77 A 68 A 62 A |
| PROFlenergy firmware update removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value at 50 °C rated value at 60 °C rated value at 40 °C rated value | module Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 77 A 68 A 62 A 133 A |
| PROFlenergy firmware update removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value at 50 °C rated value at 60 °C rated value at 40 °C rated value at 40 °C rated value at 50 °C rated value at 40 °C rated value at 40 °C rated value at 60 °C rated value at 40 °C rated value | module Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 77 A 68 A 62 A 133 A 118 A |
| PROFlenergy firmware update removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value at 60 °C rated value at 60 °C rated value at 50 °C rated value at 60 °C rated value at 50 °C rated value | module Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 77 A 68 A 62 A 133 A 118 A 107 A |
| PROFlenergy firmware update removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value at 50 °C rated value at 60 °C rated value at 50 °C rated value at 60 °C rated value at 50 °C rated value at 60 °C rated value at 60 °C rated value | module Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 77 A 68 A 62 A 133 A 118 A 107 A 200 600 V |
| PROFlenergy firmware update removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value at 50 °C rated value at 60 °C rated value at 40 °C rated value at 50 °C rated value at 50 °C rated value at 60 °C rated value | module Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 77 A 68 A 62 A 133 A 118 A 107 A 200 600 V 200 600 V |
| PROFlenergy firmware update removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value at 50 °C rated value at 60 °C rated value at 40 °C rated value at 50 °C rated value at 50 °C rated value at 60 °C rated value | module Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 77 A 68 A 62 A 133 A 118 A 107 A 200 600 V 200 600 V -15 % |
| PROFlenergy firmware update removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value at 50 °C rated value at 60 °C rated value at 60 °C rated value at 50 °C rated value at 50 °C rated value at 50 °C rated value at 60 °C rated value | module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 77 A 68 A 62 A 133 A 118 A 107 A 200 600 V 200 600 V 200 600 V 10 % |
| PROFlenergy firmware update removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value at 50 °C rated value at 60 °C rated value at 40 °C rated value at 50 °C rated value at 50 °C rated value at 60 °C rated value | module Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 77 A 68 A 62 A 133 A 118 A 107 A 200 600 V 200 600 V -15 % |
| PROFlenergy firmware update removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value at 50 °C rated value at 60 °C rated value at 60 °C rated value at 50 °C rated value at 50 °C rated value at 60 °C rated value | module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 77 A 68 A 62 A 133 A 118 A 107 A 200 600 V 200 600 V 200 600 V 10 % |
| PROFlenergy firmware update removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value at 50 °C rated value at 60 °C rated value at 60 °C rated value at 50 °C rated value at 50 °C rated value at 60 °C rated value at 50 °C rated value at 60 °C rated value | module Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 77 A 68 A 62 A 133 A 118 A 107 A 200 600 V 200 600 V 200 600 V -15 % |
| PROFlenergy firmware update removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value at 50 °C rated value at 60 °C rated value operational current at inside-delta circuit at 40 °C rated value at 50 °C rated value at 50 °C rated value at 60 °C rated value | module Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 77 A 68 A 62 A 133 A 118 A 107 A 200 600 V 200 600 V 200 600 V -15 % |
| PROFlenergy firmware update removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value at 50 °C rated value at 60 °C rated value at 40 °C rated value at 60 °C rated value at 50 °C rated value operational current at inside-delta circuit at 40 °C rated value at 60 °C rated value relative negative tolerance of the operating voltage relative negative tolerance of the operating voltage at inside-delta circuit relative negative tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit | module Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 77 A 68 A 62 A 133 A 118 A 107 A 200 600 V 200 600 V 200 600 V -15 % 10 % |
| PROFlenergy firmware update removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value at 50 °C rated value at 60 °C rated value at 60 °C rated value at 50 °C rated value at 50 °C rated value at 60 °C rated value perating voltage rated value at inside-delta circuit rated value relative negative tolerance of the operating voltage relative negative tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit | module Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 77 A 68 A 62 A 133 A 118 A 107 A 200 600 V 200 600 V 200 600 V -15 % 10 % -15 % |
| PROFlenergy firmware update removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value at 50 °C rated value at 60 °C rated value at 60 °C rated value at 50 °C rated value at 50 °C rated value at 50 °C rated value at 60 °C rated value at 50 °C rated value at 60 °C rated value at inside-delta circuit rated value relative negative tolerance of the operating voltage relative negative tolerance of the operating voltage at inside-delta circuit relative negative tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit | module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 777 A 68 A 62 A 133 A 118 A 107 A 200 600 V 200 600 V 200 600 V -15 % 10 % -15 % |
| PROFlenergy firmware update removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value at 50 °C rated value at 60 °C rated value at 60 °C rated value at 50 °C rated value at 60 °C rated value operational current at inside-delta circuit at 60 °C rated value at 20 °C rated value at 20 °C rated value at 230 V at 40 °C rated value at 230 V at inside-delta circuit at 40 °C rated value | module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 77 A 68 A 62 A 133 A 118 A 107 A 200 600 V 200 600 V 200 600 V -15 % 10 % -15 % |

| at 500 V at inside-delta circuit at 40 °C rated value | 90 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 % |
| adjustable motor current | |
| at rotary coding switch on switch position 1 | 32 A |
| at rotary coding switch on switch position 2 | 35 A |
| at rotary coding switch on switch position 3 | 38 A |
| at rotary coding switch on switch position 4 | 41 A |
| at rotary coding switch on switch position 5 | 44 A |
| at rotary coding switch on switch position 6 | 47 A |
| at rotary coding switch on switch position 7 | 50 A |
| at rotary coding switch on switch position 8 | 53 A |
| at rotary coding switch on switch position 9 | 56 A |
| at rotary coding switch on switch position 10 | 59 A |
| at rotary coding switch on switch position 11 | 62 A |
| at rotary coding switch on switch position 12 | 65 A |
| at rotary coding switch on switch position 13 | 68 A |
| at rotary coding switch on switch position 14 | 71 A |
| at rotary coding switch on switch position 15 | 74 A |
| at rotary coding switch on switch position 16 | 77 A |
| • minimum | 32 A |
| adjustable motor current | |
| for inside-delta circuit at rotary coding switch on switch position 1 | 55.4 A |
| for inside-delta circuit at rotary coding switch on switch position 2 | 60.6 A |
| for inside-delta circuit at rotary coding switch on switch position 3 | 65.8 A |
| for inside-delta circuit at rotary coding switch on switch position 4 | 71 A |
| for inside-delta circuit at rotary coding switch on switch position 5 | 76.2 A |
| for inside-delta circuit at rotary coding switch on switch position 6 | 81.4 A |
| for inside-delta circuit at rotary coding switch on switch position 7 | 86.6 A |
| for inside-delta circuit at rotary coding switch on switch position 8 | 91.8 A |
| for inside-delta circuit at rotary coding switch on switch position 9 | 97 A |
| for inside-delta circuit at rotary coding switch on switch position 10 | 102 A |
| for inside-delta circuit at rotary coding switch on switch position 11 | 107 A |
| for inside-delta circuit at rotary coding switch on switch position 12 | 113 A |
| for inside-delta circuit at rotary coding switch on switch position 13 | 118 A |
| for inside-delta circuit at rotary coding switch on switch position 14 | 123 A |
| for inside-delta circuit at rotary coding switch on switch position 15 | 128 A |
| for inside-delta circuit at rotary coding switch on switch position 16 | 133 A |
| at inside-delta circuit minimum | 55.4 A |
| minimum load [%] | 15 %; Relative to smallest settable le |
| power loss [W] for rated value of the current at AC | |
| at 40 °C after startup | 35 W |
| • at 50 °C after startup | 32 W |
| at 60 °C after startup | 31 W |
| power loss [W] at AC at current limitation 350 % | |
| at 40 °C during startup | 1 107 W |
| at 50 °C during startup | 933 W |
| • at 60 °C during startup | 826 W |
| 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 % |
| control supply voltage frequency | 50 60 Hz |
| relative negative tolerance of the control supply voltage frequency | -10 % |
| relative positive tolerance of the control supply voltage frequency | 10 % |
| control supply voltage | |
| at DC rated value | 24 V |
| relative negative tolerance of the control supply voltage at DC | -20 % |
| relative positive tolerance of the control supply voltage at DC | 20 % |
| control supply current in standby mode rated value | 160 mA |
| holding current in bypass operation rated value | 380 mA |
| inrush current peak at application of control supply voltage maximum | 3.3 A |
| duration of inrush current peak at application of control supply voltage | 12.1 ms |
| design of the overvoltage protection | Varistor |
| design of short-circuit protection for control circuit | 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 |
| Innute/Outpute | |
| Inputs/ Outputs | 1 |
| number of digital inputs | 1 |
| | 2 |
| number of digital outputs | 3 |
| number of digital outputsnot parameterizable | 2 |
| number of digital outputs not parameterizable digital output version | 2 2 normally-open contacts (NO) / 1 changeover contact (CO) |
| number of digital outputs • not parameterizable digital output version number of analog outputs | 2 |
| number of digital outputs not parameterizable digital output version | 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 |
| number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs | 2 2 normally-open contacts (NO) / 1 changeover contact (CO) |
| 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 | 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A |
| 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 Installation/ mounting/ dimensions | 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A |
| 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 | 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A |
| 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 Installation/ mounting/ dimensions | 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting |
| 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 Installation/ mounting/ dimensions mounting position | 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back |
| 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 Installation/ mounting/ dimensions mounting position fastening method | 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm |
| 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 Installation/ mounting/ dimensions mounting position fastening method height width depth | 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 306 mm |
| 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 Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting | 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm 203 mm |
| 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 Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards | 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm 203 mm |
| 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 Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards | 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm |
| 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 Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards | 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm 203 mm 10 mm 100 mm |
| 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 Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards | 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 75 mm |
| 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 Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side | 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm |
| 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 Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • at the side weight without packaging | 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 75 mm |
| 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 Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side weight without packaging Connections/ Terminals | 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm |
| 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 Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side weight without packaging Connections/ Terminals type of electrical connection | 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 5.6 kg |
| 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 Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side weight without packaging Connections/ Terminals • for main current circuit | 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5.6 kg |
| 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 Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side weight without packaging Connections/ Terminals type of electrical connection | 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 5.6 kg |
| 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 Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • backwards • 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 | 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 5 mm 5.6 kg |
| 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 Installation/ mounting/ dimensions mounting position fastening method height width 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 | 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 5 mm 5.6 kg |
| 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 Installation/ mounting/ dimensions mounting position fastening method height width 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 connection bar maximum type of connectable conductor cross-sections • for main contacts for box terminal using the front | 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 5.6 kg box terminal screw-type terminals 25 mm |

| processing | |
|--|---|
| for main contacts for box terminal using the front clamping point stranded | 1x (10 70 mm²) |
| at AWG cables for main contacts for box terminal using the front clamping point | 1x (10 2/0) |
| for main contacts for box terminal using the back clamping point solid | 1x (2.5 16 mm²) |
| at AWG cables for main contacts for box terminal using the back clamping point | 1x (10 2/0) |
| for main contacts for box terminal using both clamping points solid | 2x (2.5 16 mm²) |
| for main contacts for box terminal using both clamping points finely stranded with core end processing | 2x (2.5 35 mm²) |
| for main contacts for box terminal using both clamping points stranded | 2x (6 16 mm²), 2x (10 50 mm²) |
| for main contacts for box terminal using the back clamping point finely stranded with core end processing | 1x (2.5 50 mm²) |
| for main contacts for box terminal using the back clamping point stranded | 1x (10 70 mm²) |
| type of connectable conductor cross-sections | |
| for control circuit solid | 1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²) |
| for control circuit finely stranded with core end processing | 1x (0.5 2.5 mm ²), 2x (0.5 1.5 mm ²) |
| at AWG cables for control circuit solid wire length | 1x (20 12), 2x (20 14) |
| between soft starter and motor maximum | 800 m |
| at the digital inputs at AC maximum | 100 m |
| at the digital inputs at DC maximum | 1 000 m |
| tightening torque | 1000 m |
| | 4.5. G.N.m. |
| for main contacts with screw-type terminals | 4.5 6 N·m |
| for auxiliary and control contacts with screw-type terminals | 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 | |
| | 5 000 m; Dereting as of 1000 m, and actual |
| installation altitude at height above sea level maximum | 5 000 m; Derating as of 1000 m, see catalog |
| ambient temperature | |
| during operation | -25 +60 °C; Please observe derating at temperatures of 40 °C or above |
| during storage and transport | -40 +80 °C |
| environmental category | |
| 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) |
| EMC emitted interference | acc. to IEC 60947-4-2: Class A |
| Communication/ Protocol | |
| communication module is supported | |
| PROFINET standard | Yes |
| EtherNet/IP | Yes |
| Modbus RTU | |
| Modbus TCP | Yes |
| | Yes |
| PROFIBUS | |
| PROFIBUS UL/CSA ratings | Yes |
| | Yes |
| UL/CSA ratings | Yes |
| UL/CSA ratings manufacturer's article number • of circuit breaker — usable for Standard Faults at 460/480 V | Yes |
| UL/CSA ratings manufacturer's article number • of circuit breaker | Yes Yes |
| 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 | Yes Yes Siemens type: 3VA51, max. 125 A; lq = 10 kA |

| — usable for High Faults at 460/480 V at inside- delta circuit according to UL | Siemens type: 3VA51, max. 125 A; Iq max = 65 kA | |
|--|---|---|
| — usable for Standard Faults at 575/600 V | Siemens type: 3VA51, max. 125 A; Iq = 10 kA | |
| according to UL — usable for Standard Faults at 575/600 V at | Siemens type: 3VA51, max. 125 A; Ig = 10 kA | |
| inside-delta circuit according to UL | Siemens type. 37431, max. 123 A, iq = 10 kA | |
| of the fuse | | |
| — usable for Standard Faults up to 575/600 V according to UL | Type: Class RK5 / K5, max. 250 A; lq = 10 kA | |
| usable for High Faults up to 575/600 V according to UL | Type: Class J / L, max. 250 A; Iq = 100 kA | |
| | Type: Class RK5 / K5, max. 250 A; lq = 10 kA | |
| - usable for High Faults at inside-delta circuit up | Type: Class J / L, max. 250 A; lq = 100 kA | |
| to 575/600 V according to UL | | |
| 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 575/600 V at 50 °C rated value | 60 hp | |
| • at 200/208 V at inside-delta circuit at 50 °C rated | 30 hp | |
| value at 220/230 V at inside-delta circuit at 50 °C rated | 40 hp | |
| at 460/480 V at inside-delta circuit at 50 °C rated | 75 hp | |
| value at 575/600 V at inside-delta circuit at 50 °C rated | 100 hp | |
| value contact rating of auxiliary contacts according to UL | R300-B300 | |
| Safety related data | 1000-000 | |
| protection class IP on the front according to IEC | IP00; IP20 with cover | |
| 60529 | | |
| touch protection on the front according to IEC 60520 | finder cafe, for vertical contact from the front with cover | |
| touch protection on the front according to IEC 60529 | finger-safe, for vertical contact from the front with cover in accordance with IEC 60947-4-2 | |
| electromagnetic compatibility | finger-safe, for vertical contact from the front with cover in accordance with IEC 60947-4-2 | |
| electromagnetic compatibility Certificates/ approvals | - | |
| electromagnetic compatibility | - | |
| electromagnetic compatibility Certificates/ approvals | in accordance with IEC 60947-4-2 EMC | |
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| electromagnetic compatibility Certificates/ approvals General Product Approval Confirmatio Confirmatio Confirmatio Test Certificates Confirmation Type Test Certificates Type Test Certificates Type Test Certificates Type Test Certificates Confirmation Confirmation Confirmation Eurther information Information- and Downloadcenter (Catalogs, Brochures, https://www.siemens.com/ic10 Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/produce | in accordance with IEC 60947-4-2 | |

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5226-1AC05

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5226-1AC05

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5226-1AC05&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current

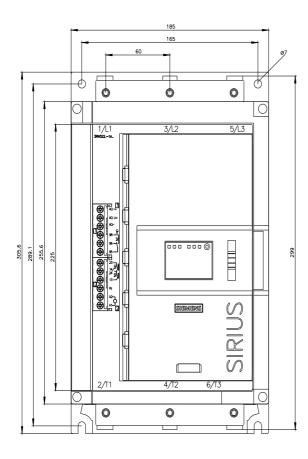
https://support.industry.siemens.com/cs/ww/en/ps/3RW5226-1AC05/char

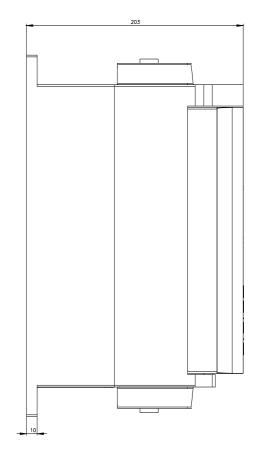
Characteristic: Installation altitude

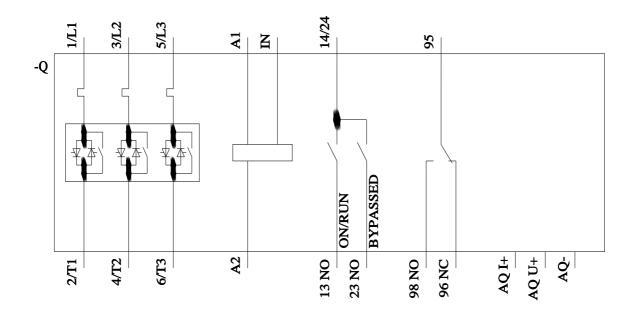
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5226-1AC05&objecttype=14&gridview=view1

Simulation Tool for Soft Starters (STS)

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







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4/10/2022 🖸