SIEMENS

Data sheet

3RW5213-1AC15



SIRIUS soft starter 200-600 V 13 A, 110-250 V AC 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>3RV2032-4TA10;</u> Type of coordination 1, Iq = 65 kA, CLASS 10 |
| of circuit breaker usable at 500 V | <u>3RV2032-4TA10;</u> Type of coordination 1, lq = 18 kA, CLASS 10 |
| of circuit breaker usable at 400 V at inside-delta circuit | <u>3RV2032-4DA10;</u> Type of coordination 1, Iq = 65 kA, CLASS 10 |
| of circuit breaker usable at 500 V at inside-delta circuit | <u>3RV2032-4DA10;</u> Type of coordination 1, Iq = 18 kA, CLASS 10 |
| of the gG fuse usable up to 690 V | <u>3NA3820-6;</u> Type of coordination 1, Iq = 65 kA |
| of the gG fuse usable at inside-delta circuit up to 500 V | <u>3NA3820-6;</u> Type of coordination 1, Iq = 65 kA |
| of full range R fuse link for semiconductor protection usable up to 690 V | <u>3NE1815-0;</u> Type of coordination 2, Iq = 65 kA |
| of back-up R fuse link for semiconductor protection usable up to 690 V | <u>3NE8017-1;</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 | |

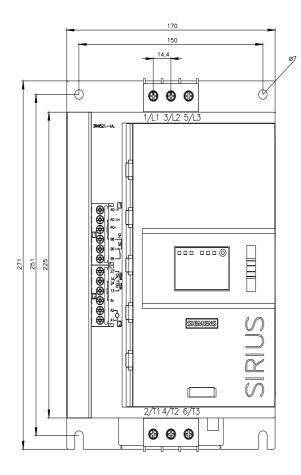
| e for main ourrant aircuit | 100 ms | | | |
|---|---|--|--|--|
| for main current circuit for control circuit | 100 ms | | | |
| insulation voltage rated value | | | | |
| | 600 V | | | |
| degree of pollution | 3, acc. to IEC 60947-4-2 | | | |
| impulse voltage rated value | 6 kV | | | |
| blocking voltage of the thyristor maximum | 1 600 V | | | |
| service factor | 1 | | | |
| surge voltage resistance rated value | 6 kV | | | |
| maximum permissible voltage for safe isolation | 000.17 | | | |
| 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 | | | |
| error logbook | Yes; Only in conjunction with special accessories | | | |
| via software parameterizable | No | | | |
| · via soltware parameterizable | | | | |
| via software parameterizable via software configurable | Yes | | | |
| | | | | |
| • via software configurable | Yes Yes; in connection with the PROFINET Standard communication | | | |
| via software configurable PROFlenergy | Yes Yes; in connection with the PROFINET Standard communication module | | | |
| via software configurable PROFlenergy firmware update | Yes Yes; in connection with the PROFINET Standard communication module Yes | | | |
| via software configurable PROFlenergy firmware update removable terminal for control circuit | Yes Yes; in connection with the PROFINET Standard communication module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature | | | |
| via software configurable PROFlenergy firmware update removable terminal for control circuit torque control analog output | Yes Yes; in connection with the PROFINET Standard communication module Yes Yes No | | | |
| via software configurable PROFlenergy firmware update removable terminal for control circuit torque control analog output Power Electronics | Yes Yes; in connection with the PROFINET Standard communication module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature | | | |
| via software configurable PROFlenergy firmware update removable terminal for control circuit torque control analog output Power Electronics operational current | Yes Yes; in connection with the PROFINET Standard communication module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) | | | |
| via software configurable PROFlenergy firmware update removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value | Yes Yes; in connection with the PROFINET Standard communication module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) | | | |
| via software configurable 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 | Yes Yes; in connection with the PROFINET Standard communication module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) | | | |
| via software configurable 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 | Yes Yes; in connection with the PROFINET Standard communication module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) | | | |
| via software configurable 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 | Yes Yes; in connection with the PROFINET Standard communication module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 13 A 11.5 A 10.5 A | | | |
| via software configurable 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 60 °C rated value at 40 °C rated value | Yes Yes; in connection with the PROFINET Standard communication module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 13 A 11.5 A 10.5 A 22.5 A | | | |
| via software configurable 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 40 °C rated value at 50 °C rated value at 40 °C rated value | Yes Yes; in connection with the PROFINET Standard communication module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 13 A 11.5 A 10.5 A 22.5 A 19.9 A | | | |
| via software configurable 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 40 °C rated value at 60 °C rated value at 40 °C rated value at 40 °C rated value at 50 °C rated value at 50 °C rated value at 50 °C rated value at 60 °C rated value at 60 °C rated value at 60 °C rated value | Yes Yes; in connection with the PROFINET Standard communication module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 13 A 11.5 A 10.5 A 22.5 A | | | |
| via software configurable 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 40 °C rated value at 40 °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 | Yes Yes; in connection with the PROFINET Standard communication module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 13 A 11.5 A 10.5 A 22.5 A 19.9 A 18.2 A | | | |
| via software configurable 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 40 °C rated value at 40 °C rated value operational current at inside-delta circuit at 50 °C rated value at 50 °C rated value at 40 °C rated value operational current at inside-delta circuit at 50 °C rated value at 60 °C rated value at 60 °C rated value | Yes Yes; in connection with the PROFINET Standard communication module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 13 A 11.5 A 10.5 A 22.5 A 19.9 A 18.2 A 200 600 V | | | |
| via software configurable 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 40 °C rated value operational current at inside-delta circuit at 60 °C rated value | Yes Yes; in connection with the PROFINET Standard communication module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 13 A 11.5 A 10.5 A 22.5 A 19.9 A 18.2 A 200 600 V 200 600 V | | | |
| via software configurable 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 50 °C rated value at 50 °C rated value at 60 °C rated value at 60 °C rated value at 60 °C rated value at 40 °C rated value at 40 °C rated value at 50 °C rated value at 60 °C rated value | Yes Yes; in connection with the PROFINET Standard communication module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 13 A 11.5 A 10.5 A 22.5 A 19.9 A 18.2 A 200 600 V 200 600 V 200 600 V -15 % | | | |
| via software configurable 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 50 °C rated value at 50 °C rated value at 60 °C rated value | Yes Yes; in connection with the PROFINET Standard communication module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 13 A 11.5 A 10.5 A 22.5 A 19.9 A 18.2 A 200 600 V 200 600 V -15 % 10 % | | | |
| via software configurable 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 50 °C rated value at 60 °C rated value | Yes Yes; in connection with the PROFINET Standard communication module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 13 A 11.5 A 10.5 A 22.5 A 19.9 A 18.2 A 200 600 V 200 600 V 200 600 V -15 % | | | |
| via software configurable 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 | Yes Yes; in connection with the PROFINET Standard communication module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 13 A 11.5 A 10.5 A 22.5 A 19.9 A 18.2 A 200 600 V 200 600 V -15 % 10 % | | | |
| via software configurable 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 | Yes Yes; in connection with the PROFINET Standard communication module Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 13 A 11.5 A 10.5 A 22.5 A 19.9 A 18.2 A 200 600 V 200 600 V 200 600 V 15 % | | | |
| via software configurable 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 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 | Yes Yes; in connection with the PROFINET Standard communication module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 13 A 11.5 A 10.5 A 22.5 A 19.9 A 18.2 A 200 600 V 200 600 V 200 600 V -15 % 10 % | | | |
| via software configurable 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 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 relative positive tolerance of the operating voltage at inside-delta circuit | Yes Yes; in connection with the PROFINET Standard communication module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 13 A 11.5 A 10.5 A 22.5 A 19.9 A 18.2 A 200 600 V 200 600 V 200 600 V -15 % 10 % -15 % | | | |
| via software configurable 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 60 °C rated value at 50 °C rated value at 60 °C rated value at 20 °C rated value at 10 °C rated value at 230 V at 40 °C rated value at 230 V at inside-delta circuit at 40 °C rated value | Yes Yes; in connection with the PROFINET Standard communication module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 13 A 11.5 A 10.5 A 22.5 A 19.9 A 18.2 A 200 600 V 200 600 V 200 600 V -15 % 10 % -15 % | | | |
| via software configurable 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 50 °C rated value at 60 °C rated value at 50 °C rated value at 60 °C rated value at 10 °C rated value at 100 °C rated value at 230 V at 40 °C rated value | Yes Yes; in connection with the PROFINET Standard communication module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 13 A 11.5 A 10.5 A 22.5 A 19.9 A 18.2 A 200 600 V 200 600 V 200 600 V -15 % 10 % -15 % 10 % | | | |
| via software configurable 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 60 °C rated value at 50 °C rated value at 60 °C rated value at 20 °C rated value at 10 °C rated value at 230 V at 40 °C rated value at 230 V at inside-delta circuit at 40 °C rated value | Yes Yes; in connection with the PROFINET Standard communication module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 13 A 11.5 A 10.5 A 22.5 A 19.9 A 18.2 A 200 600 V 200 600 V 200 600 V -15 % 10 % -15 % | | | |

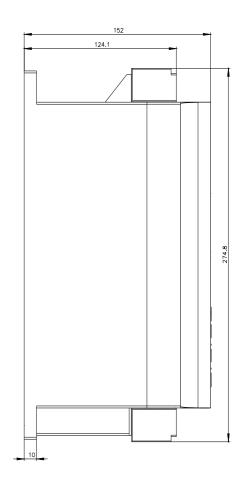
| at 500 V at inside-delta circuit at 40 °C rated value | 15 kW |
|--|--|
| Operating frequency 1 rated value | 50 Hz |
| Operating frequency 2 rated value | 60 Hz |
| relative negative tolerance of the operating frequency | -10 % |
| relative positive tolerance of the operating frequency | 10 % |
| adjustable motor current | |
| at rotary coding switch on switch position 1 | 5.5 A |
| at rotary coding switch on switch position 2 | 6 A |
| at rotary coding switch on switch position 3 | 6.5 A |
| at rotary coding switch on switch position 4 | 7 A |
| at rotary coding switch on switch position 5 | 7.5 A |
| at rotary coding switch on switch position 6 | 8 A |
| at rotary coding switch on switch position 7 | 8.5 A |
| at rotary coding switch on switch position 8 | 9 A |
| at rotary coding switch on switch position 9 | 9.5 A |
| at rotary coding switch on switch position 10 | 10 A |
| at rotary coding switch on switch position 11 | 10.5 A |
| at rotary coding switch on switch position 12 | 11 A |
| at rotary coding switch on switch position 13 | 11.5 A |
| at rotary coding switch on switch position 14 | 12 A |
| at rotary coding switch on switch position 15 | 12.5 A |
| at rotary coding switch on switch position 16 | 13 A |
| • minimum | 5.5 A |
| adjustable motor current | |
| for inside-delta circuit at rotary coding switch on switch position 1 | 9.5 A |
| for inside-delta circuit at rotary coding switch on switch position 2 | 10.4 A |
| for inside-delta circuit at rotary coding switch on switch position 3 | 11.3 A |
| for inside-delta circuit at rotary coding switch on switch position 4 | 12.1 A |
| for inside-delta circuit at rotary coding switch on switch position 5 | 13 A |
| for inside-delta circuit at rotary coding switch on switch position 6 | 13.9 A |
| for inside-delta circuit at rotary coding switch on switch position 7 | 14.7 A |
| for inside-delta circuit at rotary coding switch on switch position 8 | 15.6 A |
| for inside-delta circuit at rotary coding switch on switch position 9 | 16.5 A |
| for inside-delta circuit at rotary coding switch on switch position 10 | 17.3 A |
| for inside-delta circuit at rotary coding switch on switch position 11 | 18.2 A |
| for inside-delta circuit at rotary coding switch on switch position 12 | 19.1 A |
| for inside-delta circuit at rotary coding switch on switch position 13 | 19.9 A |
| for inside-delta circuit at rotary coding switch on switch position 14 | 20.8 A |
| for inside-delta circuit at rotary coding switch on switch position 15 | 21.7 A |
| for inside-delta circuit at rotary coding switch on switch position 16 | 22.5 A |
| at inside-delta circuit minimum | 9.5 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 | 16 W |
| • at 50 °C after startup | 15 W |
| • at 60 °C after startup | 15 W |
| power loss [W] at AC at current limitation 350 % | 040.14 |
| • at 40 °C during startup | 210 W |
| • at 50 °C during startup | 178 W |
| • at 60 °C during startup | 161 W |
| Control circuit/ Control | |
| | |

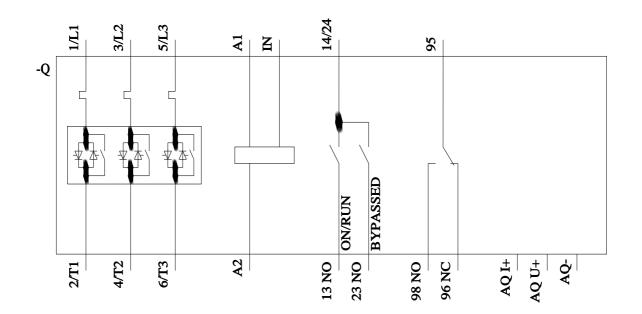
| type of voltage of the control supply voltage | AC |
|--|--|
| control supply voltage at AC | |
| • at 50 Hz | 110 250 V |
| • at 60 Hz | 110 250 V |
| relative negative tolerance of the control supply voltage at AC at 50 Hz | -15 % |
| relative positive tolerance of the control supply voltage at AC at 50 Hz | 10 % |
| relative negative tolerance of the control supply voltage at AC at 60 Hz | -15 % |
| relative positive tolerance of the control supply voltage at AC at 60 Hz | 10 % |
| 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 current in standby mode rated value | 30 mA |
| holding current in bypass operation rated value | 75 mA |
| inrush current peak at application of control supply voltage | 12.2 A |
| maximum | |
| duration of inrush current peak at application of control supply voltage | 2.2 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 |
| Inputs/ Outputs | |
| number of digital inputs | 1 |
| number of digital outputs | 3 |
| not parameterizable | 2 |
| digital output version | 2 normally-open contacts (NO) / 1 changeover contact (CO) |
| number of analog outputs | 1 |
| | |
| Switching capacity current of the relay outputs | |
| switching capacity current of the relay outputs | 3 Δ |
| • at AC-15 at 250 V rated value | 3 A 1 A |
| at AC-15 at 250 V rated value at DC-13 at 24 V rated value | 3 A 1 A |
| at AC-15 at 250 V rated value at DC-13 at 24 V rated value Installation/ mounting/ dimensions | 1 A |
| at AC-15 at 250 V rated value at DC-13 at 24 V rated value | 1 A +/- 10° rotation possible and can be tilted forward or backward on |
| at AC-15 at 250 V rated value at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position | 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface |
| at AC-15 at 250 V rated value at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method | 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing |
| at AC-15 at 250 V rated value at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height | 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm |
| 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 | 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm 170 mm |
| 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 | 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm |
| • 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 | 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm 170 mm 152 mm |
| 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 | 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm 170 mm 152 mm 10 mm |
| 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 | 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm |
| 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 | 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm |
| 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 | 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 75 mm |
| 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 | 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 75 mm 5 mm |
| 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 | 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 75 mm |
| 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 | 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 75 mm 5 mm |
| 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 Connections/ Terminals type of electrical connection | 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 75 mm 5 mm 2.1 kg |
| 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 | 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 75 mm 5 mm 2.1 kg screw-type terminals |
| 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 | 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 75 mm 5 mm 2.1 kg |
| 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 type of connectable conductor cross-sections | 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 75 mm 5 mm 2.1 kg screw-type terminals |
| 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 Connections/ Terminals type of electrical connection for control circuit for connectable conductor cross-sections for main contacts | 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 75 mm 5 mm 2.1 kg screw-type terminals screw-type terminals |
| 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 Connections/ Terminals type of electrical connection for main current circuit for control circuit type of connectable conductor cross-sections for main contacts – solid | 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 75 mm 5 mm 2.1 kg screw-type terminals screw-type terminals 2x (1.0 2.5 mm²), 2x (2.5 10 mm²) |
| 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 control circuit type of connectable conductor cross-sections for main contacts – solid – finely stranded with core end processing | 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 75 mm 5 mm 2.1 kg screw-type terminals screw-type terminals 2x (1.0 2.5 mm²), 2x (2.5 10 mm²) 2x (1.0 2.5 mm²), 2x (2.5 6.0 mm²) |
| 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 type of connectable conductor cross-sections for main contacts – solid – finely stranded with core end processing at AWG cables for main current circuit solid | 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 75 mm 5 mm 2.1 kg screw-type terminals screw-type terminals 2x (1.0 2.5 mm²), 2x (2.5 10 mm²) |
| 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 type of connectable conductor cross-sections of main current circuit solid type of connectable conductor cross-sections | 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm 170 mm 152 mm 100 mm 0 mm 100 mm 25 mm 2.1 kg screw-type terminals screw-type terminals 2x (1.0 2.5 mm²), 2x (2.5 10 mm²) 2x (16 12), 2x (14 8) |
| 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 type of connectable conductor cross-sections for main current circuit solid type of connectable conductor cross-sections for main current circuit solid | 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 10 mm 0 mm 100 mm 75 mm 5 mm 2.1 kg screw-type terminals screw-type terminals 2x (1.0 2.5 mm²), 2x (2.5 10 mm²) 2x (1.0 2.5 mm²), 2x (2.5 6.0 mm²) 2x (16 12), 2x (14 8) 1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²) |
| 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 type of connectable conductor cross-sections at AWG cables for main current circuit solid type of connectable conductor cross-sections for control circuit solid type of connectable conductor cross-sections | 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm 170 mm 152 mm 100 mm 0 mm 100 mm 25 mm 2.1 kg screw-type terminals screw-type terminals 2x (1.0 2.5 mm²), 2x (2.5 10 mm²) 2x (16 12), 2x (14 8) |
| 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 type of connectable conductor cross-sections at AWG cables for main current circuit solid type of connectable conductor cross-sections at AWG cables for main current circuit solid type of connectable conductor cross-sections for control circuit solid for control circuit solid for control circuit solid for control circuit solid | 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 75 mm 5 mm 2.1 kg screw-type terminals screw-type terminals screw-type terminals 2x (1.0 2.5 mm²), 2x (2.5 10 mm²) 2x (1.0 2.5 mm²), 2x (2.5 6.0 mm²) 2x (16 12), 2x (14 8) 1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²) 1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²) |
| 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 type of connectable conductor cross-sections for main current circuit solid type of connectable conductor cross-sections for control circuit solid type of connectable conductor cross-sections for control circuit solid type of connectable conductor cross-sections | 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 10 mm 0 mm 100 mm 75 mm 5 mm 2.1 kg screw-type terminals screw-type terminals 2x (1.0 2.5 mm²), 2x (2.5 10 mm²) 2x (1.0 2.5 mm²), 2x (2.5 6.0 mm²) 2x (16 12), 2x (14 8) 1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²) |

| between soft starter and motor maximum | 800 m |
|---|---|
| at the digital inputs at AC maximum tightening torque | 100 m |
| for main contacts with screw-type terminals | 2 2.5 N·m |
| for auxiliary and control contacts with screw-type | 0.8 1.2 N·m |
| terminals | |
| tightening torque [lbf·in] | |
| for main contacts with screw-type terminals | 18 22 lbf·in |
| for auxiliary and control contacts with screw-type terminals | 7 10.3 lbf·in |
| Ambient conditions | |
| 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 EMC emitted interference | 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2; Class A |
| Communication/ Protocol | aut. IU IEU 00347-4-2. UIASS A |
| | |
| communication module is supported PROFINET standard | Yes |
| • EtherNet/IP | Yes |
| Modbus RTU | Yes |
| Modbus TCP | Yes |
| PROFIBUS | Yes |
| UL/CSA ratings | |
| manufacturer's article number | |
| of circuit breaker | |
| — usable for Standard Faults at 460/480 V according to UL | Siemens type: 3RV2742, max. 40 A or 3VA51, max. 40 A; Iq = 5 kA |
| — usable for High Faults at 460/480 V according to UL | Siemens type: 3RV2742, max. 30 A or 3VA51, max. 35 A; lq max = 65 kA |
| — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL | Siemens type: 3RV2742, max. 40 A or 3VA51, max. 40 A; Iq = 5 kA |
| — usable for High Faults at 460/480 V at inside- delta circuit according to UL | Siemens type: 3RV2742, max. 30 A or 3VA51, max. 35 A; lq max = 65 kA |
| — usable for Standard Faults at 575/600 V according to UL | Siemens type: 3RV2742, max. 40 A or 3VA51, max. 40 A; Iq = 5 kA |
| — usable for Standard Faults at 575/600 V at inside-delta circuit according to UL | Siemens type: 3RV2742, max. 40 A or 3VA51, max. 40 A; Iq = 5 kA |
| of the fuse — usable for Standard Faults up to 575/600 V | Type: Class RK5 / K5, max. 50 A; Iq = 5 kA |
| according to UL — usable for High Faults up to 575/600 V according to UL | Type: Class J / L, max. 50 A; Iq = 100 kA |
| — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL | Type: Class RK5 / K5, max. 50 A; Iq = 5 kA |
| — usable for High Faults at inside-delta circuit up to 575/600 V according to UL | Type: Class J / L, max. 50 A; lq = 100 kA |
| operating power [hp] for 3-phase motors | |
| • at 200/208 V at 50 °C rated value | 2 hp |
| • at 220/230 V at 50 °C rated value | 3 hp |
| at 460/480 V at 50 °C rated value | 7.5 hp |
| • at 575/600 V at 50 °C rated value | 10 hp |
| at 200/208 V at inside-delta circuit at 50 °C rated value | 5 hp |
| • at 220/230 V at inside-delta circuit at 50 °C rated value | 5 hp |
| • at 460/480 V at inside-delta circuit at 50 °C rated value | 10 hp |
| at 575/600 V at inside-delta circuit at 50 °C rated value | 15 hp |

| contact rating of au | contact rating of auxiliary contacts according to UL | | | R300-B300 | | | |
|--|--|--------------------------------------|-----------------|-------------------|-------------------|---------------------------|--|
| Safety related data | | | | | | | |
| protection class IP on the front according to IEC 60529 | | | IP20 | | | | |
| touch protection on | the front according t | o IEC 60529 | finger-safe, fo | or vertical conta | ct from the front | | |
| electromagnetic cor | npatibility | | in accordance | e with IEC 6094 | 7-4-2 | | |
| Certificates/ approvals | | | | | | | |
| General Product Ap | oproval | | | | | EMC | |
| | <u>Confirmation</u> | | (| UL II | EHC | RCM | |
| Declaration of Conf | formity | Test Certifica | ates Marine | e / Shipping | | | |
| UK CA | CE EG-Konf. | <u>Type Test Cer</u> ates/Test Re | | ABS | BUREAU VERITAS | Llovd's Register us | |
| Marine / Shipping | other | | | | | | |
| PRS | <u>Confirmation</u> | | | | | | |
| | wnloadcenter (Catalo | ogs, Brochures,. |) | | | | |
| https://www.siemens.com/ic10 Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW5213-1AC15 Cax online generator | | | | | | | |
| http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5213-1AC15 Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3RW5213-1AC15 | | | | | | | |
| Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5213-1AC15⟨=en | | | | | | | |
| Characteristic: Tripping characteristics, I ² t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RW5213-1AC15/char | | | | | | | |
| Characteristic: Installation altitude http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5213-1AC15&objecttype=14&gridview=view1 | | | | | | | |
| Simulation Tool for Soft Starters (STS) https://support.industry.siemens.com/cs/ww/en/view/101494917 | | | | | | | |
| | | | | | | | |







Subject to change without notice © Copyright Siemens last modified: