SIEMENS

product brand name

Data sheet 3RW5235-6TC05

SIRIUS



SIRIUS soft starter 200-600 V 143 A, 24 V AC/DC Screw terminals Thermistor input

| product brand name | SINIUS |
|---|--|
| product category | Hybrid switching devices |
| product designation | Soft starter |
| product type designation | 3RW52 |
| manufacturer's article number | |
| of standard HMI module usable | 3RW5980-0HS00 |
| of high feature HMI module usable | 3RW5980-0HF00 |
| of communication module PROFINET standard usable | 3RW5980-0CS00 |
| of communication module PROFIBUS usable | 3RW5980-0CP00 |
| of communication module Modbus TCP usable | 3RW5980-0CT00 |
| of communication module Modbus RTU usable | 3RW5980-0CR00 |
| of communication module Ethernet/IP | 3RW5980-0CE00 |
| of circuit breaker usable at 400 V | 3VA2220-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10 |
| • of circuit breaker usable at 400 V at inside-delta circuit | 3VA2325-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10 |
| of the gG fuse usable up to 690 V | 3NA3244-6; Type of coordination 1, Iq = 65 kA |
| • of the gG fuse usable at inside-delta circuit up to 500 V | 3NA3244-6; Type of coordination 1, Iq = 65 kA |
| of full range R fuse link for semiconductor protection usable up to 690 V | 3NE1227-0; Type of coordination 2, Iq = 65 kA |
| of back-up R fuse link for semiconductor protection usable up to 690 V | 3NE3334-0B; 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 | |
| • for main current circuit | 100 ms |
| • for control circuit | 100 ms |
| insulation voltage rated value | 600 V |
| degree of pollution | 3, acc. to IEC 60947-4-2 |

| formula continue material. | 0.137 |
|--|--|
| 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 protective separation | |
| 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; Full motor protection (thermistor motor protection and electronic motor overload protection) |
| evaluation of thermistor motor protection | Yes; Type A PTC or Klixon / Thermoclick |
| • 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 software configurable | Yes |
| PROFlenergy | Yes; in connection with the PROFINET Standard communication module |
| firmware update | Yes |
| removable terminal for control circuit | Yes |
| torque control | No |
| analog output | |
| | No |
| | No |
| ower Electronics | No |
| operational current | |
| operational current • at 40 °C rated value | 143 A |
| operational current • at 40 °C rated value • at 50 °C rated value | 143 A 128 A |
| Power Electronics operational current • at 40 °C rated value • at 50 °C rated value • at 60 °C rated value | 143 A |
| operational current • at 40 °C rated value • at 50 °C rated value • at 60 °C rated value operational current at inside-delta circuit | 143 A 128 A 118 A |
| 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 | 143 A 128 A 118 A |
| 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 | 143 A 128 A 118 A 248 A 222 A |
| 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 | 143 A 128 A 118 A |
| 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 • at 60 °C rated value • operating voltage | 143 A 128 A 118 A 248 A 222 A 204 A |
| 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 | 143 A 128 A 118 A 248 A 222 A 204 A |
| 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 operating voltage • rated value • at inside-delta circuit rated value | 143 A 128 A 118 A 248 A 222 A 204 A 200 600 V 200 600 V |
| 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 operational current at inside-delta circuit • at 40 °C rated value • at 50 °C rated value • at 60 °C rated value • at 60 °C rated value • at inside-delta circuit rated value relative negative tolerance of the operating voltage | 143 A 128 A 118 A 248 A 222 A 204 A 200 600 V 200 600 V -15 % |
| 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 operational current at inside-delta circuit • at 40 °C rated value • at 50 °C rated value • at 60 °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 | 143 A 128 A 118 A 248 A 222 A 204 A 200 600 V 200 600 V |
| 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 operational current at inside-delta circuit • at 40 °C rated value • at 50 °C rated value • at 60 °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 relative negative tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at | 143 A 128 A 118 A 248 A 222 A 204 A 200 600 V 200 600 V -15 % 10 % |
| 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 • at 40 °C rated value • at 50 °C rated value • at 50 °C rated value • at 60 °C rated value • at 60 °C rated value • at inside-delta circuit rated value • at inside-delta circuit rated value relative negative tolerance of the operating voltage 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 | 143 A 128 A 118 A 248 A 222 A 204 A 200 600 V 200 600 V -15 % 10 % -15 % |
| 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 • at 60 °C rated value • at 60 °C rated value • at inside-delta circuit rated value • at inside-delta circuit rated value relative negative tolerance of the operating voltage relative positive tolerance of the operating voltage relative negative tolerance of the operating voltage relative positive tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit operating power for 3-phase motors | 143 A 128 A 118 A 248 A 222 A 204 A 200 600 V 200 600 V -15 % 10 % -15 % |
| 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 operational current at inside-delta circuit • at 40 °C rated value • at 50 °C rated value • at 60 °C rated value • at 60 °C rated value operating voltage • rated value • at inside-delta circuit rated value relative negative tolerance of the operating voltage relative positive tolerance of the operating voltage relative negative tolerance of the operating voltage relative positive tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit operating power for 3-phase motors • at 230 V at 40 °C rated value | 143 A 128 A 118 A 248 A 222 A 204 A 200 600 V 200 600 V -15 % 10 % -15 % 10 % |
| 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 • at 60 °C rated value • at 60 °C rated value • at inside-delta circuit rated value relative negative tolerance of the operating voltage relative positive tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit operating power for 3-phase motors • at 230 V at 40 °C rated value • at 230 V at inside-delta circuit at 40 °C rated value | 143 A 128 A 118 A 248 A 222 A 204 A 200 600 V 200 600 V -15 % 10 % -15 % 10 % 37 kW 75 kW |
| operational current | 143 A 128 A 118 A 248 A 222 A 204 A 200 600 V 200 600 V -15 % 10 % -15 % 10 % 37 kW 75 kW |
| operational current | 143 A 128 A 118 A 248 A 222 A 204 A 200 600 V 200 600 V -15 % 10 % -15 % 10 % 37 kW 75 kW 75 kW 132 kW |
| 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 • at 40 °C rated value • at 50 °C rated value • at 60 °C rated value • at 60 °C rated value • at 60 °C rated value operating voltage • rated value • at inside-delta circuit rated value relative negative tolerance of the operating voltage relative positive tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit operating power for 3-phase motors • at 230 V at 40 °C rated value • at 400 V at 40 °C rated value • at 400 V at inside-delta circuit at 40 °C rated value • at 400 V at inside-delta circuit at 40 °C rated value • at 500 V at 40 °C rated value | 143 A 128 A 118 A 248 A 222 A 204 A 200 600 V 200 600 V -15 % 10 % -15 % 10 % 37 kW 75 kW 75 kW 75 kW 132 kW 90 kW |
| operational current | 143 A 128 A 118 A 248 A 222 A 204 A 200 600 V 200 600 V -15 % 10 % -15 % 10 % 37 kW 75 kW 75 kW 132 kW |

| 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A |
|---|
| B A B A B A B A B A B A B A B B B A B B B A B B B A B B B A B B B A B B B A B B B A B B B A B B B A B |
| B A B A B A B A B A B A B A B B B A B B B A B B B A B B B A B B B A B B B A B B B A B B B A B B B A B |
| 3 A 3 A 3 A 3 A 3 A 3 A 48 A 33 A 88 A 43 A 88 A 43 A |
| 8 A 8 A 8 A 8 A 8 A 8 B 8 B 8 B 8 B 8 B 8 B 8 B 8 B 8 B 8 B |
| B A B A B A B A B A B A B B B A B B B A B B B B |
| B A B A B A B A B B A B B A B B A B B A B B A B B B A B |
| 3 A 93 A 98 A 13 A 18 A 28 A 33 A 38 A 33 A 38 A 38 A 38 A |
| 23 A 28 A 23 A 28 A 28 A 33 A 38 A 43 A |
| 08 A 13 A 18 A 23 A 28 A 33 A 34 A 34 A 35 A |
| 13 A 18 A 23 A 28 A 33 A 38 A 38 A 38 A |
| 18 A 23 A 28 A 33 A 38 A 33 A 34 A 36 A |
| 23 A 28 A 33 A 38 A 33 A 34 A 48 A |
| 28 A 33 A 38 A 33 A 38 A |
| 33 A 38 A 33 A 38 A 38 A |
| 88 A 83 A 83 A 88 A 88 A |
| 13 A 3 A 18 A 26 A |
| 3 A 18 A 26 A |
| 18 A 26 A |
| 26 A |
| 26 A |
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| 35 A |
| |
| 14 A |
| 52 A S1 A |
| 70 A |
| 78 A |
| 37 A |
| 96 A |
| 04 A |
| 3 A |
| 22 A |
| 30 A |
| 89 A |
| 48 A |
| 18 A |
| 5 %; Relative to smallest settable le |
| , notation of indirect outdoor to |
| 5 W |
|) W |
| 7 W |
| |
| 127 W |
| |
| 807 W |
| 605 W |
| 33: 33: 33: 33: 33: 33: 33: 33: 33: 33: |

| 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 by closing the bypass contacts maximum | 7.6 A |
| 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 |
| nputs/ 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) |
| aigitai Output version | 2 normally-open contacts (NO)/ 1 changeover contact (OO) |
| digital output version number of analog outputs | 0 |
| | |
| number of analog outputs | |
| number of analog outputs switching capacity current of the relay outputs | 0 |
| 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 | 0 3 A |
| 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 | 0 3 A |
| 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 | 0 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface |
| 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 nstallation/ mounting/ dimensions mounting position | 0 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back |
| 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 | 0 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing |
| 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 | 0 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 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 nstallation/ mounting/ dimensions mounting position fastening method height width depth | 0 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 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 nstallation/ mounting/ dimensions mounting position fastening method height width | 0 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 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 nstallation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting | 0 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 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 | 0 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 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 | 0 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 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 | 0 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 |
| 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 nstallation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards | 0 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 |
| 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 | 0 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 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 | 0 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 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 | 0 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 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 | 0 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 6.6 kg |
| 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 nstallation/ 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 | 0 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 6.6 kg |
| 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 nstallation/ 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 • for control circuit width of connection bar maximum | 0 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 6.6 kg |
| 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 control circuit • for control circuit width of connection bar maximum wire length for thermistor connection | 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 100 mm 100 mm 5 mm 6.6 kg |
| 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 control circuit • for control circuit width of connection bar maximum | 0 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 6.6 kg |

| with conductor cross-section = 2.5 mm² maximum | 250 m |
|---|--|
| type of connectable conductor cross-sections | 200 111 |
| for DIN cable lug for main contacts stranded | 2x (16 95 mm²) |
| - | 2x (15 120 mm²) |
| for DIN cable lug for main contacts finely stranded type of connectable conductor cross-sections | 2X (25 120 Hilli) |
| · · | 1v (0 F 4 0 mm²) 2v (0 F 2 F mm²) |
| • 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 for AWC cobles for control circuit colid | 1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²) |
| for AWG cables for control circuit solid | 1x (20 12), 2x (20 14) |
| wire length | 200 |
| between soft starter and motor maximum at the digital inputs at AC maximum | 800 m |
| at the digital inputs at AC maximum at the digital inputs at DC maximum | 100 m 1 000 m |
| at the digital inputs at DC maximum tightoning torque | 1 000 111 |
| tightening torque | 40 44 N m |
| for main contacts with screw-type terminals | 10 14 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 | 89 124 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 | 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 | 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: 3VA52, max. 250 A; Iq = 10 kA |
| — usable for High Faults at 460/480 V according to UL | Siemens type: 3VA52, max. 250 A; lq max = 65 kA |
| usable for Standard Faults at 460/480 V at inside- delta circuit according to UL | Siemens type: 3VA52, max. 250 A; Iq = 10 kA |
| | |
| — usable for High Faults at 460/480 V at inside-delta | Siemens type: 3VA52, max. 250 A; Iq max = 65 kA |
| <u> </u> | Siemens type: 3VA52, max. 250 A; Iq max = 65 kA Siemens type: 3VA52, max. 250 A; Iq = 10 kA |
| usable for High Faults at 460/480 V at inside-delta circuit according to UL usable for Standard Faults at 575/600 V according | , , , , , , |
| — usable for High Faults at 460/480 V at inside-delta circuit according to UL — usable for Standard Faults at 575/600 V according to UL — usable for Standard Faults at 575/600 V at inside- | Siemens type: 3VA52, max. 250 A; Iq = 10 kA |
| — usable for High Faults at 460/480 V at inside-delta circuit according to UL — usable for Standard Faults at 575/600 V according to UL — usable for Standard Faults at 575/600 V at insidedelta circuit according to UL | Siemens type: 3VA52, max. 250 A; Iq = 10 kA |
| — usable for High Faults at 460/480 V at inside-delta circuit according to UL — usable for Standard Faults at 575/600 V according to UL — usable for Standard Faults at 575/600 V at inside-delta circuit according to UL • of the fuse — usable for Standard Faults up to 575/600 V | Siemens type: 3VA52, max. 250 A; Iq = 10 kA Siemens type: 3VA52, max. 250 A; Iq = 10 kA |
| — usable for High Faults at 460/480 V at inside-delta circuit according to UL — usable for Standard Faults at 575/600 V according to UL — usable for Standard Faults at 575/600 V at inside-delta circuit according to UL • of the fuse — usable for Standard Faults up to 575/600 V according to UL — usable for High Faults up to 575/600 V according to | Siemens type: 3VA52, max. 250 A; Iq = 10 kA Siemens type: 3VA52, max. 250 A; Iq = 10 kA Type: Class RK5 / K5, max. 350 A; Iq = 10 kA |
| — usable for High Faults at 460/480 V at inside-delta circuit according to UL — usable for Standard Faults at 575/600 V according to UL — usable for Standard Faults at 575/600 V at inside-delta circuit according to UL • of the fuse — usable for Standard Faults up to 575/600 V according to UL — usable for High Faults up to 575/600 V according to UL — usable for Standard Faults at inside-delta circuit up | Siemens type: 3VA52, max. 250 A; Iq = 10 kA Siemens type: 3VA52, max. 250 A; Iq = 10 kA Type: Class RK5 / K5, max. 350 A; Iq = 10 kA Type: Class J / L, max. 350 A; Iq = 100 kA |

| • at 220/230 V at 50 °C rated value | 40 hp |
|---|---|
| • at 460/480 V at 50 °C rated value | 100 hp |
| • at 575/600 V at 50 °C rated value | 125 hp |
| • at 200/208 V at inside-delta circuit at 50 °C rated value | 75 hp |
| • at 220/230 V at inside-delta circuit at 50 °C rated value | 75 hp |
| • at 460/480 V at inside-delta circuit at 50 °C rated value | 150 hp |
| • at 575/600 V at inside-delta circuit at 50 °C rated value | 200 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 in accordance with IEC 60947-4-2

Certificates/ approvals

General Product Approval

EMC



Confirmation









Declaration of Conformity

Test Certificates

Marine / Shipping





Type Test Certificates/Test Report







Marine / Shipping

other



Confirmation

Further information

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

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=3RW5235-6TC05

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5235-6TC05

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5235-6TC05

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/3RW5235-6TC05/char

Characteristic: Installation altitude

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5235-6TC05&objecttype=14&gridview=view1

Simulation Tool for Soft Starters (STS)

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







