SIEMENS

Data sheet

3RW5514-3HF04



SIRIUS soft starter 200-480 V 18 A, 24 V AC/DC spring-type terminals Fail-safe

| product brand name | SIRIUS | | |
|--|---|--|--|
| product category | Hybrid switching devices | | |
| product designation | Failsafe soft starters | | |
| product type designation | 3RW55 | | |
| manufacturer's article number | | | |
| of high feature HMI module usable | <u>3RW5980-0HF00</u> | | |
| of communication module PROFINET standard usable | <u>3RW5980-0CS00</u> | | |
| of communication module PROFINET high-feature usable | <u>3RW5950-0CH00</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 | 3RV2032-4DA10; Type of coordination 1, Iq = 65 kA, CLASS 10 | | |
| of circuit breaker usable at 500 V | 3RV2032-4DA10; Type of coordination 1, Iq = 15 kA, CLASS 10 | | |
| of circuit breaker usable at 400 V at inside-delta circuit | 3RV2032-4EA10; Type of coordination 1, Iq = 65 kA, CLASS 10 | | |
| of circuit breaker usable at 500 V at inside-delta circuit | 3RV2032-4EA10; Type of coordination 1, Iq = 15 kA, CLASS 10 | | |
| of the gG fuse usable up to 690 V | 3NA3820-6; Type of coordination 1, Iq = 65 kA | | |
| of the gG fuse usable at inside-delta circuit up to 500 V | 3NA3820-6; Type of coordination 1, Iq = 65 kA | | |
| of full range R fuse link for semiconductor protection usable up to 690 V | <u>3NE1802-0; Type of coordination 2, Iq = 65 kA</u> | | |
| of back-up R fuse link for semiconductor protection usable up to 690 V | <u>3NE8020-1; Type of coordination 2, Iq = 65 kA</u> | | |
| of the redundant contactor for applications > SIL 1 according to EN 62061 | <u>3RT2027</u> | | |
| of the redundant contactor for applications > SIL 1 at inside-delta circuit according to EN 62061 | <u>3RT2027</u> | | |
| of the redundant contactor for applications > SIL 1 according to EN ISO 13849-1 | <u>3RT2035</u> | | |
| of the redundant contactor for applications > SIL 1 at inside-delta circuit according to EN ISO 13849-1 | <u>3RT2035</u> | | |
| Seneral technical data | | | |
| starting voltage [%] | 20 100 % | | |
| stopping voltage [%] | 50 %; non-adjustable | | |
| start-up ramp time of soft starter | 0 360 s | | |
| ramp-down time of soft starter | 0 360 s | | |
| start torque [%] | 10 100 % | | |
| stopping torque [%] | 10 100 % | | |
| torque limitation [%] | 20 200 % | | |
| current limiting value [%] adjustable | 125 800 % | | |
| | | | |

| breakaway voltage [%] adjustable | 40 100 % | | | |
|--|--|--|--|--|
| breakaway voltage [/s] adjustable | 0 2 s | | | |
| number of parameter sets | | | | |
| • | 3 5 (based on IEC 61557 12) | | | |
| accuracy class certificate of suitability | 5 (based on IEC 61557-12) | | | |
| - | Yes | | | |
| • CE marking | | | | |
| UL approval | Yes | | | |
| CSA approval | Yes | | | |
| product component | No. | | | |
| HMI-High Feature | Yes | | | |
| is supported HMI-High Feature | Yes | | | |
| product feature integrated bypass contact system | Yes | | | |
| number of controlled phases | 3 | | | |
| current unbalance limiting value [%] | 10 60 % | | | |
| ground-fault monitoring limiting value [%] | 10 95 % | | | |
| buffering time in the event of power failure | | | | |
| for main current circuit | 100 ms | | | |
| for control circuit | 100 ms | | | |
| idle time adjustable | 0 255 s | | | |
| insulation voltage rated value | 480 V | | | |
| degree of pollution | 3, acc. to IEC 60947-4-2 | | | |
| impulse voltage rated value | 6 kV | | | |
| blocking voltage of the thyristor maximum | 1 600 V | | | |
| service factor | 1.15 | | | |
| surge voltage resistance rated value | 6 kV | | | |
| maximum permissible voltage for protective separation | | | | |
| between main and auxiliary circuit | 480 V; does not apply for thermistor connection | | | |
| shock resistance | 15 g / 11 ms, from 6 g / 11 ms with potential contact lifting | | | |
| vibration resistance | 15 mm up to 6 Hz; 2 g up to 500 Hz | | | |
| recovery time after overload trip adjustable | 60 1 800 s | | | |
| utilization category according to IEC 60947-4-2 | AC 53a | | | |
| reference code according to IEC 81346-2 | Q | | | |
| Substance Prohibitance (Date) | 11/22/2019 | | | |
| SVHC substance name | Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one - 71868-10-5 Dibutylbis(pentane-2,4-dionato-O,O')tin - 22673-19-4 Lead titanium trioxide - 12060-00-3 | | | |
| Weight | 3.2 kg | | | |
| product function | | | | |
| ramp-up (soft starting) | Yes | | | |
| • ramp-down (soft stop) | Yes | | | |
| breakaway pulse | Yes | | | |
| adjustable current limitation | Yes | | | |
| creep speed in both directions of rotation | Yes | | | |
| • pump ramp down | Yes | | | |
| • DC braking | Yes | | | |
| motor heating | Yes | | | |
| min/max pointer | Yes | | | |
| trace function | Yes | | | |
| intrinsic device protection | Yes | | | |
| motor overload protection | Yes; Full motor protection (thermistor motor protection and electronic motor overload protection) / When using the motor overload protection according to ATEX, an upstream contactor is required in inside-delta circuit. | | | |
| 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 | | | |
| | | | | |
| communication function | Yes | | | |
| communication function operating measured value display | Yes Yes | | | |

| • error logbook | Yes | | | |
|---|---|--|--|--|
| via software parameterizable | Yes | | | |
| via software configurable | Yes | | | |
| screw terminal | No | | | |
| spring-loaded terminal | Yes | | | |
| PROFlenergy | Yes; in connection with the PROFINET Standard and PROFINET High-Feature communication modules | | | |
| firmware update | Yes | | | |
| removable terminal for control circuit | Yes | | | |
| voltage ramp | Yes | | | |
| torque control | Yes | | | |
| combined braking | Yes | | | |
| analog output | Yes; 4 20 mA (default) / 0 10 V | | | |
| programmable control inputs/outputs | Yes | | | |
| condition monitoring | Yes | | | |
| automatic parameterisation | Yes | | | |
| application wizards | Yes | | | |
| alternative run-down | Yes | | | |
| emergency operation mode | Yes | | | |
| reversing operation | Yes | | | |
| soft starting at heavy starting conditions | Yes | | | |
| Power Electronics | | | | |
| operational current | | | | |
| • at 40 °C rated value | 18 A | | | |
| • at 40 °C rated value minimum | 3.5 A | | | |
| • at 50 °C rated value | 15.9 A | | | |
| • at 60 °C rated value | 13.8 A | | | |
| operational current at inside-delta circuit | | | | |
| • at 40 °C rated value | 31.5 A | | | |
| • at 50 °C rated value | 28 A | | | |
| • at 60 °C rated value | 23.9 A | | | |
| operating voltage | | | | |
| rated value | 200 480 V | | | |
| at inside-delta circuit rated value | 200 480 V | | | |
| relative negative tolerance of the operating voltage | -15 % | | | |
| relative positive tolerance of the operating voltage | 10 % | | | |
| relative negative tolerance of the operating voltage at inside-delta circuit | -15 % | | | |
| relative positive tolerance of the operating voltage at inside-delta circuit | 10 % | | | |
| operating power for 3-phase motors | | | | |
| • at 230 V at 40 °C rated value | 4 kW | | | |
| • at 230 V at inside-delta circuit at 40 °C rated value | 7.5 kW | | | |
| • at 400 V at 40 °C rated value | 7.5 kW | | | |
| • at 400 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 % | | | |
| minimum load [%] | 10 %; Relative to set le | | | |
| power loss [W] for rated value of the current at AC | | | | |
| • at 40 °C after startup | 5 W | | | |
| ● at 50 °C after startup | 5 W | | | |
| ● at 60 °C after startup | 4 W | | | |
| power loss [W] at AC at current limitation 350 % | | | | |
| • at 40 °C during startup | 266 W | | | |
| ● at 50 °C during startup | 229 W | | | |
| • at 60 °C during startup | 188 W | | | |
| type of the motor protection | Electronic, tripping in the event of thermal overload of the motor | | | |
| Control circuit/ Control | | | | |
| type of voltage of the control supply voltage | AC/DC | | | |
| | | | | |

| | _ |
|---|--|
| control supply voltage at AC | |
| • at 50 Hz rated value | 24 V |
| • at 60 Hz rated value | 24 V |
| relative negative tolerance of the control supply voltage at AC at 50 Hz | -20 % |
| relative positive tolerance of the control supply voltage at AC at 50 Hz | 20 % |
| relative negative tolerance of the control supply voltage at AC at 60 Hz | -20 % |
| relative positive tolerance of the control supply voltage at AC at 60 Hz | 20 % |
| 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 | 420 mA |
| holding current in bypass operation rated value | 820 mA |
| inrush current by closing the bypass contacts maximum | 0.91 A |
| inrush current peak at application of control supply voltage maximum | 7.5 A |
| duration of inrush current peak at application of control supply voltage | 20 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 | 4 |
| • with fail-safe | 1 |
| parameterizable | 4 |
| • parameterizable | - |
| number of digital outputs | 3 |
| Number of digital outputs with fail-safe | 1 |
| number of digital outputs parameterizable | 2 |
| number of digital outputs not parameterizable | 1 |
| digital output version | 2 normally-open contacts (NO) / 1 normally-closed contact (NC) / 1 changeover contact (CO) |
| number of analog outputs | 1 |
| switching capacity current of the relay outputs | |
| at AC-15 at 250 V rated value | 3 A |
| at DC-13 at 24 V rated value | 1A |
| Response times | |
| OFF-delay time with safety-related request when switched off via control inputs maximum | 100 ms |
| Installation/ mounting/ dimensions | |
| | |
| | Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22 5°) |
| mounting position | Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing |
| mounting position fastening method | Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 275 mm |
| mounting position | screw fixing |
| mounting position fastening method height | screw fixing 275 mm |
| mounting position fastening method height width depth | screw fixing 275 mm 170 mm |
| mounting position fastening method height width | screw fixing 275 mm 170 mm |
| mounting position fastening method height width depth required spacing with side-by-side mounting | screw fixing 275 mm 170 mm 152 mm |
| mounting position fastening method height width depth required spacing with side-by-side mounting • forwards | screw fixing 275 mm 170 mm 152 mm |
| mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards | screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm |
| mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards | screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm |
| mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side | screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 75 mm 5 mm |
| mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side weight without packaging | screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 75 mm |
| mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side | screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 75 mm 5 mm |

| a for main ourrant circuit | corou typo terminala | | |
|--|---|--|--|
| for main current circuit | screw-type terminals | | |
| for control circuit | spring-loaded terminals | | |
| wire length for thermistor connection | | | |
| • with conductor cross-section = 0.5 mm ² maximum | 50 m | | |
| • with conductor cross-section = 1.5 mm ² maximum | 150 m | | |
| • with conductor cross-section = 2.5 mm ² maximum | 250 m | | |
| type of connectable conductor cross-sections | | | |
| for main contacts | | | |
| — solid | 2x (1.0 2.5 mm²), 2x (2.5 10 mm²) | | |
| finely stranded with core end processing | 2x (1.0 2.5 mm²), 2x (2.5 6.0 mm²) | | |
| for AWG cables for main current circuit solid | 2x (16 12), 2x (14 8) | | |
| type of connectable conductor cross-sections | | | |
| for control circuit solid | 2x (0.25 1.5 mm²) | | |
| for control circuit finely stranded with core end processing | 2x (0.25 1.5 mm²) | | |
| for AWG cables for control circuit solid | 2x (24 16) | | |
| for AWG cables for control circuit finely stranded with | 2x (24 16) | | |
| core end processing | | | |
| wire length between soft starter and motor maximum | 800 m | | |
| | | | |
| at the digital inputs at DC maximum | 1 000 m | | |
| tightening torque | 2 2 5 N/m | | |
| for main contacts with screw-type terminals for auxiliary and control contacts with screw type | 22.5 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 | 18 22 lbf·in | | |
| for auxiliary and control contacts with screw-type | 7 10.3 lbf-in | | |
| terminals | | | |
| Ambient conditions | | | |
| installation altitude at height above sea level maximum | 2 000 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 | | |
| - during storage coording to IEC 00701 | (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) | | |
| Environmental footprint | | | |
| Siemens Eco Profile (SEP) | Siemens EcoTech | | |
| EMC emitted interference | acc. to IEC 60947-4-2: Class A | | |
| Communication/ Protocol | | | |
| communication module is supported | | | |
| PROFINET standard | Yes | | |
| PROFINET high-feature | Yes | | |
| • EtherNet/IP | Yes | | |
| Modbus RTU | Yes | | |
| Modbus KTO Modbus TCP | Yes | | |
| PROFIBUS | Yes | | |
| UL/CSA ratings | | | |
| manufacturer's article number | | | |
| of circuit breaker usable for Standard Faults | | | |
| or circuit breaker usable for Standard Faults — at 460/480 V according to UL | Signaps type: $3PV2742$ may 60 Å or $3V/451$ may 60 Å la = 5 kÅ | | |
| - | Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; lq = 5 kA Siemens type: 3RV2742, max. 30 A or 3VA51, max. 35 A; lq max = 65 kA | | |
| | | | |
| — 60/480 V according to UL — at 460/480 V at inside delta circuit according to UI | Sigmons type: $3R/2742$ may 60 A or $3/451$ may 60 A · la = 5 kA | | |
| — at 460/480 V at inside-delta circuit according to UL | Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; $Iq = 5 kA$ | | |
| — at 460/480 V at inside-delta circuit according to UL — 60/480 V at inside-delta circuit according to UL | Siemens type: 3VA51, max. 35 A; lq max = 65 kA | | |
| — at 460/480 V at inside-delta circuit according to UL — 60/480 V at inside-delta circuit according to UL — at 575/600 V according to UL | Siemens type: 3VA51, max. 35 A; lq max = 65 kA Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; lq = 5 kA | | |
| at 460/480 V at inside-delta circuit according to UL 60/480 V at inside-delta circuit according to UL at 575/600 V according to UL 75/600 V at inside-delta circuit according to UL | Siemens type: 3VA51, max. 35 A; lq max = 65 kA Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; lq = 5 kA Siemens type: 3VA51, max. 35 A; lq max = 65 kA | | |
| at 460/480 V at inside-delta circuit according to UL 60/480 V at inside-delta circuit according to UL at 575/600 V according to UL 75/600 V at inside-delta circuit according to UL at 575/600 V at inside-delta circuit according to UL | Siemens type: 3VA51, max. 35 A; lq max = 65 kA Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; lq = 5 kA | | |
| at 460/480 V at inside-delta circuit according to UL 60/480 V at inside-delta circuit according to UL at 575/600 V according to UL 75/600 V at inside-delta circuit according to UL | Siemens type: 3VA51, max. 35 A; lq max = 65 kA Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; lq = 5 kA Siemens type: 3VA51, max. 35 A; lq max = 65 kA | | |

| according to UL | | | | | |
|--|---|--|--|--|--|
| — usable for High Faults up to 575/600 V according to UL | Type: Class J / L, max. 70 A; lq = 100 kA | | | | |
| — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL | Type: Class RK5 / K5, max. 70 A; lq = 5 kA | | | | |
| — usable for High Faults at inside-delta circuit up to 575/600 V according to UL | Type: Class J / L, max. 70 A; lq = 100 kA | | | | |
| operating power [hp] for 3-phase motors | | | | | |
| at 200/208 V at 50 °C rated value | 3 hp | | | | |
| at 220/230 V at 50 °C rated value | 5 hp | | | | |
| • at 460/480 V at 50 °C rated value | 10 hp | | | | |
| at 200/208 V at inside-delta circuit at 50 °C rated value | 7.5 hp | | | | |
| at 220/230 V at inside-delta circuit at 50 °C rated value | 7.5 hp | | | | |
| at 460/480 V at inside-delta circuit at 50 °C rated value | 20 hp | | | | |
| contact rating of auxiliary contacts according to UL | R300-B300 | | | | |
| Safety related data | | | | | |
| product function suitable for safety function | Yes | | | | |
| suitability for use | | | | | |
| safety-related switching on | No | | | | |
| safety-related switching OFF | Yes | | | | |
| safe state | Open load circuit | | | | |
| function test interval maximum | 1a | | | | |
| diagnostics test interval by internal test function maximum | 1 000 s | | | | |
| stop category according to IEC 60204-1 | 0 | | | | |
| B10d value | 1 588 000 | | | | |
| average diagnostic coverage level (DCavg) | 90 % | | | | |
| MTTFd | 39 a | | | | |
| IEC 62061 | | | | | |
| Safety Integrity Level (SIL) according to IEC 62061 | 1 | | | | |
| PFHD with high demand rate according to IEC 62061 | 1E-6 1/h | | | | |
| ISO 13849 | | | | | |
| performance level (PL) according to ISO 13849-1 | c | | | | |
| IEC 61508 | | | | | |
| Safety Integrity Level (SIL) | | | | | |
| according to IEC 61508 | SIL 1 | | | | |
| safety device type according to IEC 61508-2 | Туре В | | | | |
| PFHD with high demand rate according to IEC 61508 | 1E-6 1/h | | | | |
| PFDavg with low demand rate according to IEC 61508 | 0.09 | | | | |
| Safe failure fraction (SFF) | 60 % | | | | |
| hardware fault tolerance according to IEC 61508 | 0 | | | | |
| T1 value of service life according to IEC 61508 | 20 a | | | | |
| Electrical Safety | 200 | | | | |
| protection class IP on the front according to IEC 60529 | IP20 | | | | |
| touch protection on the front according to IEC 60529 | finger-safe, for vertical contact from the front | | | | |
| ATEX | | | | | |
| Safety Integrity Level (SIL) according to IEC 61508 relating | SIL1 | | | | |
| to ATEX | | | | | |
| PFHD with high demand rate according to IEC 61508 relating to ATEX | 5E-7 1/h | | | | |
| PFDavg with low demand rate according to IEC 61508 relating to ATEX | 0.008 | | | | |
| hardware fault tolerance according to IEC 61508 relating to ATEX | 0 | | | | |
| T1 value for proof test interval or service life according to IEC 61508 relating to ATEX | 3 a | | | | |
| certificate of suitability | | | | | |
| • ATEX | Yes | | | | |
| • IECEx | Yes | | | | |
| according to ATEX directive 2014/34/EU | BVS 18 ATEX F 003 X | | | | |
| type of protection according to ATEX directive 2014/34/EU | II (2)G [Ex eb Gb] [Ex db Gb] [Ex pxb Gb], II (2)D [Ex tb Db] [Ex pxb Db], I (M2) [Ex db Mb] | | | | |
| Approvals Certificates | | | | | |
| General Product Approval | | | | | |
| onioral i rodaot Approva | | | | | |

| UK CA | | <u>Confirmation</u> | CE EG-Konf. | | EAC |
|---|----------------------------------|--------------------------------|----------------|--|--|
| EMV | | For use in hazardous locations | | Functional Saftey | Test Certificates |
| | KC | KEX ATEX | IECE× | <u>Type Examination Cer-</u> tificate | <u>Type Test Certific-</u> ates/Test Report |
| Marine / Shipping | | | | other | Environment |
| ABS | BUREAU VERITAS | Hoyd's Register urs | PRS | <u>Confirmation</u> | Siemens EcoTech |
| Environment | | | | | |
| EPD | Environmental Con- firmations | | | | |
| Further information | | | | | |
| 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=3RW5514-3HF04 | | | | | |
| Cax online generator | | | | | |

 Cax online generator

 http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5514-3HF04

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

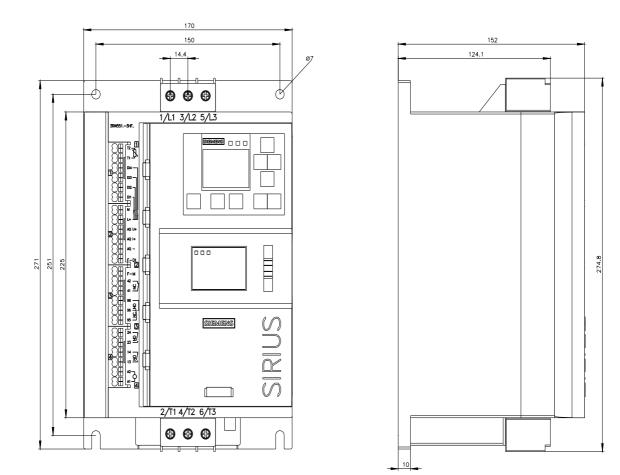
https://support.industry.siemens.com/cs/ww/en/ps/3RW5514-3HF04 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5514-3HF04&lang=en

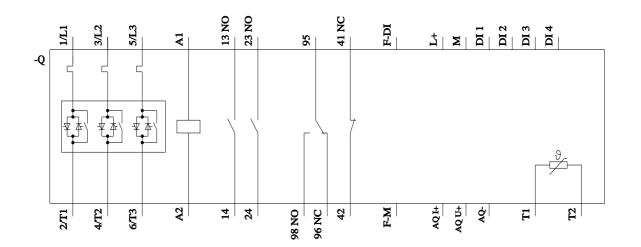
- Characteristic: Tripping characteristics, I²t, Let-through current
- https://support.industry.siemens.com/cs/ww/en/ps/3RW5514-3HF04/char

Characteristic: Installation altitude

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5514-3HF04&objecttype=14&gridview=view1 Simulation Tool for Soft Starters (STS)

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





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