SIEMENS

Data sheet 3RW5244-2AC14



SIRIUS soft starter 200-480 V 250 A, 110-250 V AC spring-type 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 | 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 | 3VA2440-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10 |
| of circuit breaker usable at 500 V | 3VA2440-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10 |
| • of circuit breaker usable at 400 V at inside-delta circuit | 3VA2450-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10 |
| • of circuit breaker usable at 500 V at inside-delta circuit | 3VA2450-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10 |
| of the gG fuse usable up to 690 V | 2x3NA3354-6; Type of coordination 1, Iq = 65 kA |
| • of the gG fuse usable at inside-delta circuit up to 500 V | 2x3NA3354-6; Type of coordination 1, Iq = 65 kA |
| of full range R fuse link for semiconductor protection usable up to 690 V | 3NE1331-0; Type of coordination 2, Iq = 65 kA |
| of back-up R fuse link for semiconductor protection usable up to 690 V | 3NE3336; Type of coordination 2, Iq = 65 kA |
| eneral 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 |
| impulse voltage rated value | 5, acc. to IEC 60947-4-2 |
| blocking voltage of the thyristor maximum | 1 600 V |
| service factor | 1 |
| surge voltage resistance rated value | 6 kV |
| maximum permissible voltage for protective separation | UNV |
| 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 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 | Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) |
| Power Electronics | |
| operational current | |
| at 40 °C rated value | 250 A |
| at 50 °C rated value | |
| | 220 A |
| • at 60 °C rated value | 220 A 200 A |
| at 60 °C rated value operational current at inside-delta circuit | 200 A |
| at 60 °C rated value operational current at inside-delta circuit at 40 °C rated value | 200 A 433 A |
| at 60 °C rated value operational current at inside-delta circuit at 40 °C rated value at 50 °C rated value | 200 A 433 A 381 A |
| 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 | 200 A 433 A |
| 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 operating voltage | 200 A 433 A 381 A 346 A |
| 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 operating voltage rated value | 200 A 433 A 381 A 346 A 200 480 V |
| 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 operating voltage rated value at inside-delta circuit rated value | 200 A 433 A 381 A 346 A 200 480 V 200 480 V |
| 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 operating voltage rated value at inside-delta circuit rated value relative negative tolerance of the operating voltage | 200 A 433 A 381 A 346 A 200 480 V 200 480 V -15 % |
| 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 operating voltage rated value at inside-delta circuit rated value relative negative tolerance of the operating voltage relative positive tolerance of the operating voltage | 200 A 433 A 381 A 346 A 200 480 V 200 480 V -15 % 10 % |
| 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 operating voltage rated value at inside-delta circuit rated value relative negative tolerance of the operating voltage | 200 A 433 A 381 A 346 A 200 480 V 200 480 V -15 % |
| 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 rated value operating voltage 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 | 200 A 433 A 381 A 346 A 200 480 V 200 480 V -15 % 10 % |
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| 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 operating voltage 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 relative negative tolerance of the operating voltage at inside-delta circuit | 200 A 433 A 381 A 346 A 200 480 V 200 480 V -15 % 10 % -15 % |
| 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 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 | 200 A 433 A 381 A 346 A 200 480 V 200 480 V -15 % 10 % -15 % |
| 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 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 | 200 A 433 A 381 A 346 A 200 480 V 200 480 V -15 % 10 % -15 % 10 % |
| 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 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 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 | 200 A 433 A 381 A 346 A 200 480 V 200 480 V -15 % 10 % -15 % 10 % 75 kW 132 kW |
| 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 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 negative 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 | 200 A 433 A 381 A 346 A 200 480 V 200 480 V -15 % 10 % -15 % 10 % 75 kW 132 kW |

| relative negative tolerance of the operating frequency | 10 % |
|---|--|
| relative positive tolerance of the operating frequency | 10 70 |
| adjustable motor current | 400 A |
| at rotary coding switch on switch position 1 | 100 A |
| at rotary coding switch on switch position 2 | 110 A |
| at rotary coding switch on switch position 3 | 120 A |
| at rotary coding switch on switch position 4 | 130 A |
| at rotary coding switch on switch position 5 | 140 A |
| at rotary coding switch on switch position 6 | 150 A |
| at rotary coding switch on switch position 7 | 160 A |
| at rotary coding switch on switch position 8 | 170 A |
| at rotary coding switch on switch position 9 | 180 A |
| at rotary coding switch on switch position 10 | 190 A |
| at rotary coding switch on switch position 11 | 200 A |
| at rotary coding switch on switch position 12 | 210 A |
| at rotary coding switch on switch position 13 | 220 A |
| at rotary coding switch on switch position 14 | 230 A |
| at rotary coding switch on switch position 15 | 240 A |
| at rotary coding switch on switch position 16 | 250 A |
| minimum | 100 A |
| djustable motor current | |
| for inside-delta circuit at rotary coding switch on switch position 1 | 173 A |
| for inside-delta circuit at rotary coding switch on switch position 2 | 191 A |
| for inside-delta circuit at rotary coding switch on switch position 3 | 208 A |
| for inside-delta circuit at rotary coding switch on switch position 4 | 225 A |
| for inside-delta circuit at rotary coding switch on switch position 5 | 242 A |
| for inside-delta circuit at rotary coding switch on switch position 6 | 260 A |
| for inside-delta circuit at rotary coding switch on switch position 7 for inside delta circuit at rotary coding switch on switch position 7 | 277 A |
| for inside-delta circuit at rotary coding switch on switch position 8 for inside-delta circuit at rotary coding switch on switch | 294 A 312 A |
| position 9 • for inside-delta circuit at rotary coding switch on switch | 312 A 329 A |
| position 10 • for inside-delta circuit at rotary coding switch on switch | 346 A |
| position 11 • for inside-delta circuit at rotary coding switch on switch | 364 A |
| position 12 • for inside-delta circuit at rotary coding switch on switch | 381 A |
| position 13 • for inside-delta circuit at rotary coding switch on switch | 398 A |
| position 14 for inside-delta circuit at rotary coding switch on switch | 416 A |
| position 15 for inside-delta circuit at rotary coding switch on switch position 16 | 433 A |
| at inside-delta circuit minimum | 173 A |
| | |
| ninimum load [%] | 15 %; Relative to smallest settable le |
| power loss [W] for rated value of the current at AC | 07.14 |
| at 40 °C after startup | 87 W |
| at 50 °C after startup | 78 W |
| at 60 °C after startup | 72 W |
| power loss [W] at AC at current limitation 350 % | |
| at 40 °C during startup | 3 818 W |
| at 50 °C during startup | 3 188 W |
| at 60 °C during startup | 2 799 W |
| ontrol circuit/ Control | |

| * all 50 Hz * all | control cumply voltage of A.C. | |
|--|---|--|
| earlier 100 120 | control supply voltage at AC | 110 250 // |
| Variety control tolerance of the control supply voltage at AC at 80 Hz | | |
| AC at 50 Hz Feature positive tolerance of the control supply voltage at AC at 50 Hz Feature positive tolerance of the control supply voltage at AC at 50 Hz Feature positive tolerance of the control supply voltage at AC at 50 Hz Feature positive tolerance of the control supply voltage at AC at 50 Hz Feature positive tolerance of the control supply voltage at AC at 50 Hz Feature positive tolerance of the control supply voltage frequency Feature positive tolerance of the control supply voltage frequency Feature positive tolerance of the control supply voltage frequency Feature positive tolerance of the control supply voltage frequency Feature positive tolerance of the control supply voltage frequency Feature positive tolerance of the control supply voltage frequency Feature positive tolerance of the control supply voltage frequency Feature positive tolerance of the control supply voltage frequency Feature positive tolerance of the control supply voltage frequency Feature positive tolerance of the control supply voltage frequency Feature positive tolerance of the control supply voltage frequency Feature positive tolerance of the control supply voltage frequency Feature positive tolerance of the control supply voltage frequency Feature positive tolerance of the control supply voltage frequency Feature positive tolerance of the control supply voltage frequency Feature positive tolerance of the control supply voltage frequency Feature positive tolerance of the control supply voltage frequency Feature positive tolerance of the control supply voltage frequency Feature positive tolerance of the control supply voltage frequency Feature positive tolerance of the control supply voltage frequency Feature positive tolerance of the control supply voltage frequency Feature positive tolerance of the control supply voltage frequency Feature positive tolerance of the control supply voltage frequency Feature positive tolerance of the control supply voltage frequency Feature positive tolerance frequency | | |
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| AC at 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz control supply voltage frequency relative positive tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency control supply current in standary mode rated value blotting current in bypass operation rated value blotting current in bypass operation rated value blotting current in bypass operation rated value control supply current in bypass contacts maximum inrush current by closing the bypass contacts maximum current peak at application of control supply voltage dissign of finush current peak at application of control supply voltage design of finush current peak at application of control supply voltage design of abort-circuit protection for control circuit the protect of the control current peak at application of control supply voltage number of digital inputs 1 1 number of digital inputs 1 1 number of digital outputs 3 1 number of digital outputs 3 1 number of digital outputs 3 1 number of digital outputs 4 1 AC 3 AC 3 V rited value 4 1 AC 1-3 AC 3 V V rited value 4 1 AC 1-3 AC 3 V V rited value 4 1 AC 1-3 AC 3 V V rited value 5 AC 1-4 AC 3 AC 3 V rited value 6 AC 1-4 AC 3 AC 3 V rited value 7 AC 1-4 AC 3 AC 3 V rited value 7 AC 1-4 AC 3 AC 3 V rited value 7 AC 1-4 AC 3 AC 3 V rited value 7 AC 1-4 AC 3 AC 3 V rited value 8 AC 3 AC 3 AC 3 AC 3 V rited value 9 AC 1-4 AC 3 AC | | 10 % |
| AC at 60 Hz control supply voltage frequency relative negative tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency control supply current in standby mode rated value control supply current in standby mode rated value control supply current in bypass operation rated value control supply current in bypass operation rated value control supply current in bypass operation rated value control supply current by closing the bypass contacts maximum control created to the control control supply voltage design of short-circuit protection of control supply voltage design of the overvoltage protection design of short-circuit protection for control circuit Inputs Outputs number of digital inputs number of digital inputs 1 sunction of digital outputs 3 on parameterizable 2 control supply control of the relay outputs 1 switching capacity current of the relay outputs 4 at AC-15 at 250 V rated value 1 at AC-15 at 250 V rated value 1 A standard at 250 V rated val | | -15 % |
| relative negative tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency control supply current in standby mode rated value noising current in bypass operation rated value Incush current by closing the bypass contacts maximum nursh current peak at application of control supply voltage maximum duration of inrush current peak at application of control supply voltage design of the overvoltage protection design of short-circuit protection for control circuit design of short-circuit protection for control circuit protection design of short-circuit protection for control circuit protection Inputed Coliputs Input | | 10 % |
| requency relative positive tolerance of the control supply voltage frequency control supply current in standby mode rated value holding current in bypass operation rated value innush current peak at application of control supply voltage maximum A A G Suse (Icu# I KA), 8 A quick-acting fuse (Icu# I KA), 6 I ministure circuit breaker (Icu# S00 A), is not part of scape of supply inputs/ Outputs number of digital inputs number of digital outputs **on parameterizable** **oit parameterizable** **oit parameterizable** **oit parameterizable** **oit AC A Isu 250 V rated value **oit A Isu 250 V rated value **oit AC A Isu 250 V rated value **oit A Isu 250 V rated value **oit AC A Isu 250 V rated value **oit A Isu 250 V rated value **oit AC A Is | control supply voltage frequency | 50 60 Hz |
| requency control supply current in standby mode rated value holding current in bypess operation rated value incush current by closing the bypass contracts maximum 2.2.A incush current peak at application of control supply voltage maximum duration of incush current peak at application of control supply voltage maximum duration of incush current peak at application of control supply voltage design of the overvoltage protection design of short-circuit protection for control circuit the Ag Gisus (cu=1 kA), 6 A quick-acting fuse (icu=1 kA), C1 miniature circuit by Ag Gisus (icu=1 kA), 6 A quick-acting fuse (icu=1 kA), C1 miniature circuit by Ag Gisus (icu=1 kA), 6 A quick-acting fuse (icu=1 kA), C1 miniature circuit by Ag Gisus (icu=1 kA), 6 A quick-acting fuse (icu=1 kA), C1 miniature circuit breaker (icu=300 A); Is not part of soope of supply Inputs/ Outputs number of digital inputs 1 a number of digital outputs 2 a not parameterizable 2 a contrality-open contacts (NO) / 1 changeover contact (icu) mumber of analog outputs 3 A 3 A 3 A 3 A 4 at OC-13 at 250 V rated value 1 A Installation/ mounting/ dimensions mounting position 4 at OC-13 at 24 V rated value 1 A Installation/ mounting/ dimensions mounting position 4 at OC-13 at 250 V rated value 1 A Installation/ mounting surface +/50° rotatable, with vertical mounting surface 4 - 22.5° titable to the front and back 4 - 22.5° titable to the front and back 4 - 23.5° titable to the front and back 5 at the side 4 - 000 A), 2 at the side 5 at the side 6 pro NNC advised for control circuit 5 at the side 6 pro NNC advised for control circuit 5 at the side 6 pro NNC advised for control circuit 7 at the side 6 pro NNC advised for control circuit 7 at the side 6 pro NNC advised for control circuit 7 and provided the remains 8 at C2 - 24 mm²) 9 ps g Contractions/1 reminals 1 at the side 1 arm of the relax value 1 a maximum 1 at the side of the relax value 1 a maximum 1 a mumber of digital inputs 1 a mumber of digital inputs 1 | | -10 % |
| holding current in bypass operation rated value inrush current peak at application of control supply voltage maximum duration of inrush current peak at application of control supply voltage maximum duration of inrush current peak at application of control supply voltage design of short-circuit protection for control circuit design of short-circuit protection for control circuit packer ((cu= 600 A), C 6 miniature circuit breaker ((cu= 300 A)), Is not part of scope of supply inputs/ Outputs number of digital inputs number of digital outputs on parameterizable 2 number of analog outputs in the said output version number of analog outputs on the said output version number of analog outputs in the said output version number of analog outputs on the said output version number of analog outputs in the said output version number of analog outputs on the said output version number of analog outputs in the said output version number of analog outputs on the said output version number of analog outputs on the said output version number of analog outputs on the said output version number of analog outputs on the said output version number of analog outputs on the said output version number of analog outputs on the said output version number of analog outputs on the said output version number of analog outputs on the said output version number of analog outputs on the said output version number of analog outputs on the said output version number of digital output version number of digital output version number of digital outputs on the said output version number of digital outputs on the said output version number of digital outputs on the said output version number of digital outputs on the said output version number of digital outputs on the said output version number of digital outputs on the said output version number of digital outputs on the said output version number of digital inputs number of digital inputs number of digital inputs number of analog outp | | 10 % |
| inrush current by closing the bypass contacts maximum duration of inrush current peak at application of control supply voltage maximum duration of inrush current peak at application of control supply voltage design of the overvoltage protection Varistor design of short-circuit protection for control circuit breaker (icu= 600 A), C6 miniature circuit breaker (icu= 300 A); is not part of breaker (icu= 600 A), C6 miniature circuit breaker (icu= 300 A); is not part of supply Inputs Outputs Inputs Outputs Outputs Inputs Outputs Inputs Outputs Inputs Outputs Inputs Outputs Inputs | | 30 mA |
| Incuts current peak at application of control supply voltage maximum duration of inrush current peak at application of control supply voltage design of the overvoltage protection Varistor design of short-circuit protection for control circuit the special protection of scope of supply Inputs/ Outputs number of digital inputs 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | holding current in bypass operation rated value | 100 mA |
| maximum duration of Innush current peak at application of control supply voltage design of the overvoltage protection design of short-circuit protection for control circuit the design of short-circuit protection for control circuit supports of short-circuit protection for control circuit the design of short-circuit protection for control circuit breaker (icu= 800 A), C6 miniature circuit breaker (icu= 300 A), is not part of scappe of supply supports of digital inputs 1 number of digital outputs 3 end 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 4 at AC-15 at 250 V rated value 3 A at DC-13 at 24 V rated value 1 A histalitation/mounting dimensions mounting position ### vertical mounting surface +/-90* rotatable, with vertical mounting surface +/- 22.5* tittable to the front and back sacrew fixing ### same ### assume the fixing and the same ### assum | inrush current by closing the bypass contacts maximum | 2.2 A |
| voltage design of the overvoltage protection design of short-circuit protection for control circuit breaker (icu= 800 A), 6 A quick-acting fuse (icu=1 kA), C1 miniature circuit breaker (icu= 800 A), is miniature circuit breaker (icu= 800 A), is miniature circuit breaker (icu= 300 A), is not part of scope of supply number of digital inputs number of digital outputs number of analog outputs number of analog outputs at AC-15 at 250 V rated value at DC-13 at 24 V rated value number of analog outputs at AC-15 at 250 V rated value number of miniature circuit supply number of analog outputs at DC-13 at 24 V rated value number of miniature or circuit supply number of analog outputs at DC-13 at 24 V rated value number of miniature or circuit supply number of miniature or contact (CO) number of analog outputs at DC-13 at 24 V rated value 1 A number of miniature circuit supply 2.5 tiltable to the front and back of the full of th | 1 11 11 7 9 | 12.2 A |
| design of short-circuit protection for control circuit breaker (cu = 900 A), 6 A quick-acting fuse ((cu = 1kA), C1 miniature circuit breaker (cu = 900 A), 6 miniature dircuit breaker (cu = 300 A), is not part of scope of supply number of digital inputs number of digital outputs number of allogital cutty version 1 2 normally-open contacts (NO) / 1 changeover contact (CO) number of analog outputs 1 3 3 4 4 250 V rated value 1 3 A 4 3 C-15 at 250 V rated value 1 1 A 1 A 1 C-13 at 24 V rated value 1 1 A 1 A 1 C-13 at 24 V rated value 1 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A | | 2.2 ms |
| breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply number of digital inputs | design of the overvoltage protection | Varistor |
| Inputs/ Outputs number of digital inputs number of digital outputs number of digital outputs number of analog outputs in the profession of the relay outputs at AC-15 at 250 V rated value at DC-13 at 24 V rated value the state of mounting of dimensions mounting position dimensions in depth case dimensions for ownerds dimensions in downwards dimensions dime | design of short-circuit protection for control circuit | breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of |
| number of digital inputs number of digital outputs number of digital outputs number of digital outputs number of analog outputs of analog outputs switching capacity current of the relay outputs at CA-15 at 250 V rated value 1 A Installation/ mounting/ dimensions mounting position fastening method height 393 mm width 210 mm depth 203 mm required spacing with side-by-side mounting forwards obackwards obackwards obackwards obackwards othorwards oth | Inputs/ Outputs | |
| number of digital outputs • not parameterizable digital output version number of analog outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value • at DC-15 at 250 V rated value 1 A 1 A Installation/ mounting surface +/-90° rotatable, with vertical mounting surface | | 1 |
| ont parameterizable 2 digital output version 2 normally-open contacts (NO) / 1 changeover contact (CO) number of analog outputs 1 witching capacity current of the relay outputs 3 A 3 A at DC-13 at 24 V rated value 1 A matallation/ mounting of dimensions mounting position 4 vertical mounting surface +/-90* rotatable, with vertical mounting surface +/-90* rotatable, with vertical mounting surface +/-20.5* tillable to the front and back screw fixing 4 height 210 mm 4 depth 220 mm 4 depth 220 mm 4 depth 203 mm 7 required spacing with side-by-side mounting 4 height 203 mm 7 equired spacing with side-by-side mounting 4 height 203 mm 7 height 203 mm 7 height 203 mm 8 height 203 mm 7 height 203 mm 8 height 203 mm 8 height 203 mm 8 height 203 mm 9 height 203 mm | | |
| digital output version 2 normally-open contacts (NO) / 1 changeover contact (CO) number of analog outputs 1 switching capacity current of the relay outputs • at AC-15 at 250 V rated value 1 A Installation/ mounting/ dimensions mounting position with vertical mounting surface +/-90° rotatable, with vertical mounting surface •/- 22.5° tiltable to the front and back fastening method screw fixing height 333 mm width 210 mm depth 203 mm required spacing with side-by-side mounting • forwards 10 mm • backwards 0 mm • upwards 100 mm • downwards 100 mm • downwards 75 mm • at the side 5 mm weight without packaging 9.9 kg Comections/ Terminals type of electrical connection • for main current circuit sping-loaded terminals width of connectable conductor cross-sections • for DIN cable lug for main contacts stranded 2x (50 240 mm²) • for AWG cables for control circuit finely stranded with core end processing • for AWG cables for control circuit sinely stranded with core end processing • for AWG cables for control circuit sinely stranded with core end processing • for AWG cables for control circuit sinely stranded with core end processing • for AWG cables for control circuit sinely stranded with core end processing • for AWG cables for control circuit sinely stranded with core end processing • for AWG cables for control circuit sinely stranded with core | | |
| number of analog outputs witching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value 1 A Installation/ mounting/ dimensions mounting position with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing height 393 mm width 210 mm depth 203 mm required spacing with side-by-side mounting • forwards • backwards • uppwards • of main current victual mounting • for main current circuit • for control circuit solid width oconnection bar maximum type of connectable conductor cross-sections • for DIN cable lug for main contacts firendy stranded • for AWG cables for control circuit finely stranded with • for AWG cables for control circuit sinely stranded with • for AWG cables for control circuit sinely stranded with • for AWG cables for control circuit sinely stranded with • for AWG cables for control circuit sinely stranded with • for AWG cables for control circuit finely stranded with • for AWG cables for control circuit finely stranded with • for AWG cables for control circuit finely stranded with • for AWG cables for control circuit finely stranded with • for AWG cables for control circuit finely stranded with • for AWG cables for control circuit finely stranded with | · | |
| switching capacity current of the relay outputs at AC-15 at 250 V rated value 1 A Installation/mounting/dimensions mounting position with vertical mounting surface +/-90* rotatable, with vertical mounting surface +/-90* rotatabl | | |
| at AC-15 at 250 V rated value at CC-13 at 24 V rated value 1 A Installation/ mounting/ dimensions mounting position with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/-2.2.5° tiltable to the front and back fastening method screw fixing height 393 mm width 210 mm depth 203 mm required spacing with side-by-side mounting forwards obackwards omm obackwards omm odwnwards at the side weight without packaging Connections/ Terminals type of electrical connection of or main current circuit of connectable conductor cross-sections of or DIN cable lug for main contacts stranded of or DIN cable lug for main contacts stranded of or control circuit spind-oaded terminals type of connectable conductor cross-sections of control circuit spind-oaded terminals type of connectable conductor cross-sections of control circuit spind-oaded terminals type of connectable conductor cross-sections of or DIN cable lug for main contacts finely stranded of or DIN cable lug for main contacts stranded of or DIN cable lug for main contacts finely stranded of or Control circuit finely stranded with core end processing of or AWG cables for control circuit finely stranded with of control circuit finely stranded with of cables for control circuit finely stranded with | <u> </u> | 1 |
| • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/-22.5° tiltable to the front and back fastening method screw fixing height 393 mm width 210 mm depth 203 mm required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • downwards • at the side weight without packaging Connections/ Termials type of electrical connection • for main current circuit • for control circuit width of connection bar maximum type of connectable conductor cross-sections • for DIN cable lug for main contacts stranded • for DIN cable lug for main contacts finely stranded type of connectable conductor cross-sections • for control circuit siolid • for AWG cables for control circuit soild • for AWG cables for control circuit tinley stranded with • for AWG cables for control circuit tinley stranded with • for AWG cables for control circuit tinley stranded with • for AWG cables for control circuit tinley stranded with • for AWG cables for control circuit tinley stranded with • for AWG cables for control circuit tinley stranded with • for AWG cables for control circuit tinley stranded with • for AWG cables for control circuit tinley stranded with • for AWG cables for control circuit tinley stranded with • for AWG cables for control circuit till till to the fire the first and th | | 3 A |
| Installation/ mounting/ dimensions with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/-20.5° tiltable to the front and back screw fixing height 393 mm width 210 mm 203 mm required spacing with side-by-side mounting 0 mm 0 | | |
| mounting position with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/-22.5° tiltable to the front and back screw fixing height 393 mm width 210 mm depth required spacing with side-by-side mounting • forwards • backwards • backwards • upwards • downwards • at the side • for mm weight without packaging Connections/ Terminals type of electrical connection • for main current circuit • for control circuit width of connectable conductor cross-sections • for DIN cable lug for main contacts finely stranded • for control circuit spind-solded terminals type of connectable conductor cross-sections • for control circuit solid • for CNWG cables for control circuit sinely stranded with • for AWG cables for control circuit finely stranded with • for AWG cables for control circuit finely stranded with • for AWG cables for control circuit finely stranded with • for AWG cables for control circuit finely stranded with • for AWG cables for control circuit finely stranded with • for AWG cables for control circuit finely stranded with • for AWG cables for control circuit finely stranded with • for AWG cables for control circuit finely stranded with | 11 1 11 111 | TA . |
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| required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side • at the side • for control circuit solid • for CoNTrol Circuit finely stranded • for CNWG cables for control circuit stranded • for AWG cables for control circuit finely stranded with • for AWG cables for control circuit finely stranded with • for AWG cables for control circuit finely stranded with • for AWG cables for control circuit finely stranded with • for AWG cables for control circuit finely stranded with • for AWG cables for control circuit finely stranded with • for AWG cables for control circuit finely stranded with • for AWG cables for control circuit finely stranded with • for AWG cables for control circuit finely stranded with • for AWG cables for control circuit finely stranded with • for AWG cables for control circuit finely stranded with • for AWG cables for control circuit finely stranded with | | |
| • forwards • backwards • backwards • upwards • upwards • downwards • at the side • at the side • for main current circuit • for control circuit bar maximum type of connectable conductor cross-sections • for DIN cable lug for main contacts stranded • for control circuit solid • for control circuit finely stranded with core end processing • for AWG cables for control circuit solid • for AWG cables for control circuit finely stranded with • for AWG cables for control circuit finely stranded with • for AWG cables for control circuit finely stranded with • for AWG cables for control circuit finely stranded with • for AWG cables for control circuit finely stranded with • for AWG cables for control circuit finely stranded with • for AWG cables for control circuit finely stranded with • for AWG cables for control circuit finely stranded with • for AWG cables for control circuit finely stranded with • for AWG cables for control circuit finely stranded with • for AWG cables for control circuit finely stranded with • for AWG cables for control circuit finely stranded with • for AWG cables for control circuit finely stranded with • for AWG cables for control circuit finely stranded with | • | 203 mm |
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| upwards downwards at the side 5 mm weight without packaging 9.9 kg Connections/ Terminals type of electrical connection for main current circuit for control circuit spring-loaded terminals width of connection bar maximum 45 mm type of connectable conductor cross-sections for DIN cable lug for main contacts stranded for DIN cable lug for main contacts finely stranded 2x (50 240 mm²) 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 for AWG cables for control circuit finely stranded with for AWG cables for control circuit finely stranded with 2x (24 16) | • forwards | 10 mm |
| downwards at the side 5 mm weight without packaging 9.9 kg Connections/ Terminals type of electrical connection for main current circuit for control circuit spring-loaded terminals width of connection bar maximum type of connectable conductor cross-sections for DIN cable lug for main contacts stranded for DIN cable lug for main contacts finely stranded type of connectable conductor cross-sections for control circuit solid for control circuit solid for control circuit finely stranded with core end processing for AWG cables for control circuit finely stranded with for AWG cables for control circuit finely stranded with 2x (24 16) | · · · · · | |
| at the side weight without packaging 9.9 kg Connections/ Terminals type of electrical connection for main current circuit for control circuit spring-loaded terminals width of connection bar maximum type of connectable conductor cross-sections for DIN cable lug for main contacts stranded for DIN cable lug for main contacts finely stranded type of connectable conductor cross-sections for control circuit solid for control circuit finely stranded with core end processing for AWG cables for control circuit finely stranded with for AWG cables for control circuit finely stranded with 2x (24 16) | | |
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| type of electrical connection • for main current circuit • for control circuit spring-loaded terminals width of connection bar maximum type of connectable conductor cross-sections • for DIN cable lug for main contacts stranded • for DIN cable lug for main contacts finely stranded type of connectable conductor cross-sections • for DIN cable lug for main contacts finely stranded 2x (50 240 mm²) 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 • for AWG cables for control circuit solid 2x (24 16) • for AWG cables for control circuit finely stranded with 2x (24 16) | upwardsdownwards | 100 mm 75 mm |
| type of electrical connection • for main current circuit • for control circuit spring-loaded terminals width of connection bar maximum type of connectable conductor cross-sections • for DIN cable lug for main contacts stranded • for DIN cable lug for main contacts finely stranded type of connectable conductor cross-sections • for control circuit solid • for control circuit finely stranded with core end processing • for AWG cables for control circuit finely stranded with • for AWG cables for control circuit finely stranded with • for AWG cables for control circuit finely stranded with • for AWG cables for control circuit finely stranded with 2x (24 16) • for AWG cables for control circuit finely stranded with | upwardsdownwardsat the side | 100 mm 75 mm 5 mm |
| for main current circuit for control circuit spring-loaded terminals width of connection bar maximum type of connectable conductor cross-sections for DIN cable lug for main contacts stranded for DIN cable lug for main contacts finely stranded type of connectable conductor cross-sections for control circuit solid for control circuit finely stranded with core end processing for AWG cables for control circuit finely stranded with for AWG cables for control circuit finely stranded with 2x (24 16) for AWG cables for control circuit finely stranded with | upwards downwards at the side weight without packaging | 100 mm 75 mm 5 mm |
| for control circuit width of connection bar maximum type of connectable conductor cross-sections for DIN cable lug for main contacts stranded for DIN cable lug for main contacts finely stranded type of connectable conductor cross-sections for control circuit solid for control circuit finely stranded with core end processing for AWG cables for control circuit finely stranded with for AWG cables for control circuit finely stranded with 2x (24 16) for AWG cables for control circuit finely stranded with 2x (24 16) | upwards downwards at the side weight without packaging Connections/ Terminals | 100 mm 75 mm 5 mm |
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| type of connectable conductor cross-sections • for DIN cable lug for main contacts stranded • for DIN cable lug for main contacts finely stranded 2x (70 240 mm²) 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 • for AWG cables for control circuit finely stranded with • for AWG cables for control circuit finely stranded with 2x (24 16) | upwards downwards at the side weight without packaging Connections/ Terminals type of electrical connection | 100 mm 75 mm 5 mm 9.9 kg |
| for DIN cable lug for main contacts stranded for DIN cable lug for main contacts finely stranded for connectable conductor cross-sections for control circuit solid for control circuit finely stranded with core end processing for AWG cables for control circuit finely stranded with for AWG cables for control circuit finely stranded with for AWG cables for control circuit finely stranded with 2x (0.25 1.5 mm²) 2x (0.25 1.5 mm²) 2x (24 16) 2x (24 16) | upwards downwards at the side weight without packaging Connections/ Terminals type of electrical connection for main current circuit | 100 mm 75 mm 5 mm 9.9 kg |
| for DIN cable lug for main contacts finely stranded type of connectable conductor cross-sections for control circuit solid for control circuit finely stranded with core end processing for AWG cables for control circuit solid for AWG cables for control circuit finely stranded with for AWG cables for control circuit finely stranded with 2x (0.25 1.5 mm²) 2x (24 16) 2x (24 16) | upwards downwards at the side weight without packaging Connections/ Terminals type of electrical connection for main current circuit for control circuit | 100 mm 75 mm 5 mm 9.9 kg busbar connection spring-loaded terminals |
| type of connectable conductor cross-sections • for control circuit solid • for control circuit finely stranded with core end processing • for AWG cables for control circuit solid • for AWG cables for control circuit finely stranded with • for AWG cables for control circuit finely stranded with 2x (24 16) • x (24 16) | upwards downwards at the side weight without packaging Connections/ Terminals type of electrical connection for main current circuit for control circuit width of connection bar maximum | 100 mm 75 mm 5 mm 9.9 kg busbar connection spring-loaded terminals |
| for control circuit solid for control circuit finely stranded with core end processing for AWG cables for control circuit solid for AWG cables for control circuit finely stranded with 2x (0.25 1.5 mm²) 2x (0.25 1.5 mm²) 2x (24 16) 2x (24 16) | upwards downwards at the side weight without packaging Connections/ Terminals type of electrical connection for main current circuit for control circuit width of connection bar maximum type of connectable conductor cross-sections | 100 mm 75 mm 5 mm 9.9 kg busbar connection spring-loaded terminals 45 mm |
| for control circuit finely stranded with core end processing for AWG cables for control circuit solid for AWG cables for control circuit finely stranded with 2x (0.25 1.5 mm²) 2x (24 16) 2x (24 16) | upwards downwards at the side weight without packaging Connections/ Terminals type of electrical connection for main current circuit for control circuit width of connection bar maximum type of connectable conductor cross-sections for DIN cable lug for main contacts stranded | 100 mm 75 mm 5 mm 9.9 kg busbar connection spring-loaded terminals 45 mm 2x (50 240 mm²) |
| for AWG cables for control circuit solid for AWG cables for control circuit finely stranded with 2x (24 16) 2x (24 16) | upwards downwards at the side weight without packaging Connections/ Terminals type of electrical connection for main current circuit for control circuit width of connection bar maximum type of connectable conductor cross-sections for DIN cable lug for main contacts stranded for DIN cable lug for main contacts finely stranded | 100 mm 75 mm 5 mm 9.9 kg busbar connection spring-loaded terminals 45 mm 2x (50 240 mm²) |
| • for AWG cables for control circuit finely stranded with 2x (24 16) | upwards downwards at the side weight without packaging Connections/ Terminals type of electrical connection for main current circuit for control circuit width of connection bar maximum type of connectable conductor cross-sections for DIN cable lug for main contacts stranded for DIN cable lug for main contacts finely stranded type of connectable conductor cross-sections | 100 mm 75 mm 5 mm 9.9 kg busbar connection spring-loaded terminals 45 mm 2x (50 240 mm²) 2x (70 240 mm²) |
| | upwards downwards at the side weight without packaging Connections/ Terminals type of electrical connection for main current circuit for control circuit width of connection bar maximum type of connectable conductor cross-sections for DIN cable lug for main contacts stranded for DIN cable lug for main contacts finely stranded type of connectable conductor cross-sections for control circuit solid | 100 mm 75 mm 5 mm 9.9 kg busbar connection spring-loaded terminals 45 mm 2x (50 240 mm²) 2x (70 240 mm²) 2x (0.25 1.5 mm²) |
| | upwards downwards at the side weight without packaging Connections/ Terminals type of electrical connection for main current circuit for control circuit width of connection bar maximum type of connectable conductor cross-sections for DIN cable lug for main contacts stranded for DIN cable lug for main contacts finely stranded type of connectable conductor cross-sections for control circuit solid for control circuit finely stranded with core end processing | 100 mm 75 mm 5 mm 9.9 kg busbar connection spring-loaded terminals 45 mm 2x (50 240 mm²) 2x (70 240 mm²) 2x (0.25 1.5 mm²) 2x (0.25 1.5 mm²) |

| wire length | |
|--|---|
| between soft starter and motor maximum | 800 m |
| at the digital inputs at AC maximum | 100 m |
| tightening torque | |
| for main contacts with screw-type terminals | 14 24 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 | 124 210 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: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA |
| usable for High Faults at 460/480 V according to UL | Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA |
| usable for Standard Faults at 460/480 V at inside- delta circuit according to UL | Siemens type: 3VA54, max. 600 A; Iq = 18 kA |
| usable for High Faults at 460/480 V at inside-delta circuit according to UL | Siemens type: 3VA54, max. 600 A; Iq max = 65 kA |
| usable for Standard Faults at 575/600 V according to UL | Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA |
| — usable for Standard Faults at 575/600 V at insidedelta circuit according to UL | Siemens type: 3VA54, max. 600 A; Iq = 18 kA |
| of the fuse— usable for Standard Faults up to 575/600 V | Type: Class J / L, max. 800 A; Iq = 18 kA |
| according to UL — usable for High Faults up to 575/600 V according to | Type: Class J / L, max. 800 A; Iq = 100 kA |
| UL usable for Standard Faults at inside-delta circuit up | Type: Class J / L, max. 800 A, Iq = 100 kA Type: Class J / L, max. 800 A; Iq = 18 kA |
| to 575/600 V according to UL | |
| — usable for High Faults at inside-delta circuit up to 575/600 V according to UL | Type: Class J / L, max. 800 A; Iq = 100 kA |
| operating power [hp] for 3-phase motors | 60 ha |
| • at 200/208 V at 50 °C rated value | 60 hp |
| • at 220/230 V at 50 °C rated value | 75 hp |
| • at 460/480 V at 50 °C rated value | 150 hp |
| at 200/208 V at inside-delta circuit at 50 °C rated value | 125 hp |
| at 220/230 V at inside-delta circuit at 50 °C rated value | 150 hp |
| at 460/480 V at inside-delta circuit at 50 °C rated value | 300 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 |

Certificates/ approvals

General Product Approval





Confirmation







EMC

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).

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

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

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

Information on the packaging

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

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

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW5244-2AC14

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RW5244-2AC14}\\$

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5244-2AC14

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5244-2AC14&lang=en

Characteristic: Tripping characteristics, I^2t , Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RW5244-2AC14/char

Characteristic: Installation altitude

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5244-2AC14&objecttype=14&gridview=view1

Simulation Tool for Soft Starters (STS)

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







