SIEMENS

Data sheet

3RW5214-3AC05



SIRIUS soft starter 200-600 V 18 A, 24 V AC/DC 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 | <u>3RW5980-0HS00</u> |
| of high feature HMI module usable | <u>3RW5980-0HF00</u> |
| of communication module PROFINET standard usable | <u>3RW5980-0CS00</u> |
| of communication module PROFIBUS usable | <u>3RW5980-0CP00</u> |
| of communication module Modbus TCP usable | <u>3RW5980-0CT00</u> |
| of communication module Modbus RTU usable | <u>3RW5980-0CR00</u> |
| of communication module Ethernet/IP | <u>3RW5980-0CE00</u> |
| of circuit breaker usable at 400 V | 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 | <u>3NA3820-6; Type of coordination 1, Iq = 65 kA</u> |
| 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> |
| 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 |

| trin class | |
|--|---|
| 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 |
| | 600 V |
| insulation voltage rated value degree of pollution | 3, acc. to IEC 60947-4-2 |
| impulse voltage rated value | 5, acc. to fee 60947-4-2 6 kV |
| | 1 600 V |
| blocking voltage of the thyristor maximum service factor | 1 |
| | 6 kV |
| surge voltage resistance rated value maximum permissible voltage for safe isolation | O KV |
| between main and auxiliary circuit | 600 V |
| shock resistance | |
| vibration resistance | 15 g / 11 ms, from 12 g / 11 ms with potential contact lifting |
| | 15 mm to 6 Hz; 2g to 500 Hz AC 53a |
| utilization category according to IEC 60947-4-2 | |
| reference code according to IEC 81346-2 | Q 02/15/2018 |
| Substance Prohibitance (Date) | 02/15/2018 |
| product function | Voc |
| ramp-up (soft starting) ramp down (soft stop) | Yes |
| ramp-down (soft stop) | Yes |
| Soft Torque | |
| adjustable current limitation | Yes |
| pump ramp down intrineig dowing protection | 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 | 18 A |
| • at 50 °C rated value | 16 A |
| • at 60 °C rated value | 14 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 | 200 600 V |
| at inside-delta circuit rated value | 200 600 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 | 10 % |
| inside-delta circuit | |
| operating power for 3-phase motors | |
| | |

| • 220 V al inside-data cruut at 40 °C rada value 7.5 W • at 400 V at 0 °C rada value 7.5 W • at 400 V at 0 °C rada value 7.5 W • at 500 V at 0 °C rada value 15 W • at 500 V at 0 °C rada value 15 W • at 500 V at 0 °C rada value 0 Hz • at 500 V at 0 °C rada value 0 Hz • at 600 V at 0 °C rada value 0 Hz • at rodary coding switch on switch patison 1 0 % • at rodary coding switch on switch patison 3 8.2 A • at rodary coding switch on switch patison 3 8.2 A • at rodary coding switch on switch patison 5 10.3 A • at rodary coding switch on switch patison 5 11.4 A • at rodary coding switch on switch patison 5 12.4 A • at rodary coding switch on switch patison 5 13.4 A • at rodary coding switch on switch patison 1 14.5 A • at rodary coding switch on switch patison 1 15.8 A • at rodary coding switch on switch patison 1 15.8 A • at rodary coding switch on switch patison 1 15.8 A • at rodary coding switch on switch patison 1 15.8 A • at rodary coding switch on s | • at 230 V at 40 °C rated value | 4 kW |
|---|---|--------|
| • 4 400 V at 40 °C rated value 7.5 kW • 4 400 V at 40 °C rated value 15 kW • at 500 V at 40 °C rated value 11 kW • at 500 V at 40 °C rated value 012 • at 500 V at 40 °C rated value 0142 • Deprating frequency 1 rated value 0142 • At rotary coding switch on switch position 1 7.5 A • at rotary coding switch on switch position 2 8.2 A • at rotary coding switch on switch position 3 8.9 A • at rotary coding switch on switch position 5 10.3 A • at rotary coding switch on switch position 6 11.4 A • at rotary coding switch on switch position 7 11.7 A • at rotary coding switch on switch position 1 1.5 S.A • at rotary coding switch on switch position 1 1.5 S.A • at rotary coding switch on switch position 1 1.5 S.A • at rotary coding switch on switch position 1 1.5 S.A • at rotary coding switch on switch position 1 1.5 S.A • at rotary coding switch on switch position 1 1.5 S.A • at rotary coding switch on switch position 1 1.5 S.A • at rotary coding switch on switch position 1 1.5 A <td></td> <td></td> | | |
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| • at 500 V at 40 °C rated value 18.5 W Operating frequency 1 rated value 60 Hz Operating frequency 2 rated value 60 Hz Operating frequency 2 rated value 60 Hz Operating frequency 2 rated value 60 Hz Telative negative tolerance of the operating frequency 10 % • in totay coding switch on switch position 1 7.5 A • in totay coding switch on switch position 2 82 A • at rotary coding switch on switch position 3 89 A • at rotary coding switch on switch position 5 10.3 A • at rotary coding switch on switch position 6 11 A • at rotary coding switch on switch position 7 11.7 A • at rotary coding switch on switch position 8 12.4 A • at rotary coding switch on switch position 1 14.5 A • at rotary coding switch on switch position 1 14.5 A • at rotary coding switch on switch position 1 15.4 A • at rotary coding switch on switch position 1 15.4 A • at rotary coding switch on switch position 1 13.4 • at rotary coding switch on switch position 1 14.2 A • at rotary coding switch on switch position 1 13. | | |
| | | |
| Operating frequency 1 rated value 60 Hz Operating frequency 2 rated value 60 Hz Operating frequency 2 rated value 60 Hz Introduce contrect 7.5 A attract regiment of regression 1 7.5 A attract regression 2 7.5 A attract regression 2 8.9 A attract regression 2 9.1 A < | | |
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| • at rotary coding switch on switch position 1416.6 A• at rotary coding switch on switch position 1517.3 A• at rotary coding switch on switch position 1618 A• minimum7.5 Aadjustable motor current13 A• for inside-delta circuit at rotary coding switch on switch position 314.2 A• for inside-delta circuit at rotary coding switch on switch position 315.4 A• for inside-delta circuit at rotary coding switch on switch position 316.6 A• for inside-delta circuit at rotary coding switch on switch position 417.8 A• for inside-delta circuit at rotary coding switch on switch position 519.1 A• for inside-delta circuit at rotary coding switch on switch position 719.1 A• for inside-delta circuit at rotary coding switch on switch position 720.3 A• for inside-delta circuit at rotary coding switch on switch position 721.5 A• for inside-delta circuit at rotary coding switch on switch position 1522.7 A• for inside-delta circuit at rotary coding switch on switch position 1225.1 A• for inside-delta circuit at rotary coding switch on switch position 1325.1 A• for inside-delta circuit at rotary coding switch on switch position 1426.3 A• for inside-delta circuit at rotary coding switch on switch position 1327.5 A• for inside-delta circuit at rotary coding switch on switch position 1426.3 A• for inside-delta circuit at rotary coding switch on switch position 1327.5 A• for inside-delta circuit at rotary coding switch on switch posi | at rotary coding switch on switch position 12 | 15.2 A |
| • at rotary coding switch on switch position 15 17.3 A • at rotary coding switch on switch position 16 18 A • minimum 7.5 A adjustable motor current 13 A • for inside-detta circuit at rotary coding switch on switch position 1 13 A • for inside-detta circuit at rotary coding switch on switch position 3 14.2 A • for inside-detta circuit at rotary coding switch on switch position 3 15.4 A • for inside-detta circuit at rotary coding switch on switch position 6 16.6 A • for inside-detta circuit at rotary coding switch on switch position 6 19.1 A • for inside-detta circuit at rotary coding switch on switch position 7 20.3 A • for inside-detta circuit at rotary coding switch on switch position 7 21.5 A • for inside-detta circuit at rotary coding switch on switch position 15 23.9 A • for inside-detta circuit at rotary coding switch on switch position 11 23.9 A • for inside-detta circuit at rotary coding switch on switch position 12 26.3 A • for inside-detta circuit at rotary coding switch on switch position 13 28.3 A • for inside-detta circuit at rotary coding switch on switch position 14 27.5 A • for inside-detta circuit at rotary coding switch on switch position 12 26.3 A < | at rotary coding switch on switch position 13 | 15.9 A |
| • at rotary coding switch on switch position 1618 A• minimum7.5 Aadjustable motor current7.5 A• for inside-delta circuit at rotary coding switch on switch position 113 A• for inside-delta circuit at rotary coding switch on switch position 213.4 A• for inside-delta circuit at rotary coding switch on switch position 414.2 A• for inside-delta circuit at rotary coding switch on switch position 415.4 A• for inside-delta circuit at rotary coding switch on switch position 510.6 A• for inside-delta circuit at rotary coding switch on switch position 510.1 A• for inside-delta circuit at rotary coding switch on switch position 520.3 A• for inside-delta circuit at rotary coding switch on switch position 721.5 A• for inside-delta circuit at rotary coding switch on switch position 722.7 A• for inside-delta circuit at rotary coding switch on switch position 1023.9 A• for inside-delta circuit at rotary coding switch on switch position 1025.1 A• for inside-delta circuit at rotary coding switch on switch position 1026.3 A• for inside-delta circuit at rotary coding switch on switch position 1126.3 A• for inside-delta circuit at rotary coding switch on switch position 1226.3 A• for inside-delta circuit at rotary coding switch on switch position 1327.5 A• for inside-delta circuit at rotary coding switch on switch position 1426.3 A• for inside-delta circuit at rotary coding switch on switch position 1527.5 A• for inside- | at rotary coding switch on switch position 14 | 16.6 A |
| • minimum7.5 Aadjustable motor current13 A• for inside-delta circuit at rotary coding switch on switch position 213 A• for inside-delta circuit at rotary coding switch on switch position 314.2 A• for inside-delta circuit at rotary coding switch on switch position 315.4 A• for inside-delta circuit at rotary coding switch on switch position 416.6 A• for inside-delta circuit at rotary coding switch on switch position 617.8 A• for inside-delta circuit at rotary coding switch on switch position 719.1 A• for inside-delta circuit at rotary coding switch on switch position 720.3 A• for inside-delta circuit at rotary coding switch on switch position 721.5 A• for inside-delta circuit at rotary coding switch on switch position 723.9 A• for inside-delta circuit at rotary coding switch on switch position 1025.1 A• for inside-delta circuit at rotary coding switch on switch position 1125.1 A• for inside-delta circuit at rotary coding switch on switch position 1325.1 A• for inside-delta circuit at rotary coding switch on switch position 1428.8 A• for inside-delta circuit at rotary coding switch on switch position 1628.8 A• for inside-delta circuit at rotary coding switch on switch position 1630 A• for inside-delta circuit at rotary coding switch on switch position 1631.2 A• for inside-delta circuit at rotary coding switch on switch position 1631.2 A• for inside-delta circuit at rotary coding switch on switch position 1631.2 A <td> at rotary coding switch on switch position 15 </td> <td>17.3 A</td> | at rotary coding switch on switch position 15 | 17.3 A |
| adjustable motor current 13 A • for inside-delta circuit at rotary coding switch on switch position 1 13 A • for inside-delta circuit at rotary coding switch on switch position 2 14.2 A • for inside-delta circuit at rotary coding switch on switch position 3 15.4 A • for inside-delta circuit at rotary coding switch on switch position 5 16.6 A • for inside-delta circuit at rotary coding switch on switch position 6 17.8 A • for inside-delta circuit at rotary coding switch on switch position 6 20.3 A • for inside-delta circuit at rotary coding switch on switch position 7 21.5 A • for inside-delta circuit at rotary coding switch on switch position 7 21.5 A • for inside-delta circuit at rotary coding switch on switch position 7 22.7 A • for inside-delta circuit at rotary coding switch on switch position 10 25.1 A • for inside-delta circuit at rotary coding switch on switch position 11 26.3 A • for inside-delta circuit at rotary coding switch on switch position 12 28.8 A • for inside-delta circuit at rotary coding switch on switch position 13 28.8 A • for inside-delta circuit at rotary coding switch on switch position 13 30 A • for inside-delta circuit at rotary coding switch on switch position 14 30 A • for inside-del | at rotary coding switch on switch position 16 | 18 A |
| • for inside-delta circuit at rotary coding switch on switch position 113 A• for inside-delta circuit at rotary coding switch on switch position 214.2 A• for inside-delta circuit at rotary coding switch on switch position 315.4 A• for inside-delta circuit at rotary coding switch on switch position 416.6 A• for inside-delta circuit at rotary coding switch on switch position 517.8 A• for inside-delta circuit at rotary coding switch on switch position 519.1 A• for inside-delta circuit at rotary coding switch on switch position 720.3 A• for inside-delta circuit at rotary coding switch on switch position 721.5 A• for inside-delta circuit at rotary coding switch on switch position 822.7 A• for inside-delta circuit at rotary coding switch on switch position 1023.9 A• for inside-delta circuit at rotary coding switch on switch position 1126.3 A• for inside-delta circuit at rotary coding switch on switch position 1126.3 A• for inside-delta circuit at rotary coding switch on switch position 1328.8 A• for inside-delta circuit at rotary coding switch on switch position 1430 A• for inside-delta circuit at rotary coding switch on switch position 1631.2 A | • minimum | 7.5 A |
| switch position 114.2 A• for inside-delta circuit at rotary coding switch on switch position 314.2 A• for inside-delta circuit at rotary coding switch on switch position 315.4 A• for inside-delta circuit at rotary coding switch on switch position 516.6 A• for inside-delta circuit at rotary coding switch on switch position 517.8 A• for inside-delta circuit at rotary coding switch on switch position 619.1 A• for inside-delta circuit at rotary coding switch on switch position 720.3 A• for inside-delta circuit at rotary coding switch on switch position 721.5 A• for inside-delta circuit at rotary coding switch on switch position 822.7 A• for inside-delta circuit at rotary coding switch on switch position 923.9 A• for inside-delta circuit at rotary coding switch on switch position 1025.1 A• for inside-delta circuit at rotary coding switch on switch position 1126.3 A• for inside-delta circuit at rotary coding switch on switch position 1227.5 A• for inside-delta circuit at rotary coding switch on switch position 1326.3 A• for inside-delta circuit at rotary coding switch on switch position 1426.3 A• for inside-delta circuit at rotary coding switch on switch position 1327.5 A• for inside-delta circuit at rotary coding switch on switch position 1430 A• for inside-delta circuit at rotary coding switch on switch position 1531.2 A• for inside-delta circuit at rotary coding switch on switch position 1631.2 A• for inside-delta circuit at | adjustable motor current | |
| switch position 215.4 A• for inside-delta circuit at rotary coding switch on switch position 415.4 A• for inside-delta circuit at rotary coding switch on switch position 516.6 A• for inside-delta circuit at rotary coding switch on switch position 517.8 A• for inside-delta circuit at rotary coding switch on switch position 619.1 A• for inside-delta circuit at rotary coding switch on switch position 720.3 A• for inside-delta circuit at rotary coding switch on switch position 721.5 A• for inside-delta circuit at rotary coding switch on switch position 922.7 A• for inside-delta circuit at rotary coding switch on switch position 1023.9 A• for inside-delta circuit at rotary coding switch on switch position 1125.1 A• for inside-delta circuit at rotary coding switch on switch position 1227.5 A• for inside-delta circuit at rotary coding switch on switch position 1328.8 A• for inside-delta circuit at rotary coding switch on switch position 1430 A• for inside-delta circuit at rotary coding switch on switch position 1531.2 A• for inside-delta circuit at rotary coding switch on switch position 1631.2 A | switch position 1 | |
| switch position 316.6 A• for inside-delta circuit at rotary coding switch on switch position 516.6 A• for inside-delta circuit at rotary coding switch on switch position 517.8 A• for inside-delta circuit at rotary coding switch on switch position 719.1 A• for inside-delta circuit at rotary coding switch on switch position 720.3 A• for inside-delta circuit at rotary coding switch on switch position 721.5 A• for inside-delta circuit at rotary coding switch on switch position 822.7 A• for inside-delta circuit at rotary coding switch on switch position 1023.9 A• for inside-delta circuit at rotary coding switch on switch position 1125.1 A• for inside-delta circuit at rotary coding switch on switch position 1226.3 A• for inside-delta circuit at rotary coding switch on switch position 1126.3 A• for inside-delta circuit at rotary coding switch on switch position 1227.5 A• for inside-delta circuit at rotary coding switch on switch position 1328.8 A• for inside-delta circuit at rotary coding switch on switch position 1430 A• for inside-delta circuit at rotary coding switch on switch position 1531.2 A• for inside-delta circuit at rotary coding switch on switch position 1631.2 A | switch position 2 | |
| switch position 417.8 A• for inside-delta circuit at rotary coding switch on switch position 517.8 A• for inside-delta circuit at rotary coding switch on switch position 719.1 A• for inside-delta circuit at rotary coding switch on switch position 720.3 A• for inside-delta circuit at rotary coding switch on switch position 721.5 A• for inside-delta circuit at rotary coding switch on switch position 922.7 A• for inside-delta circuit at rotary coding switch on switch position 1023.9 A• for inside-delta circuit at rotary coding switch on switch position 1125.1 A• for inside-delta circuit at rotary coding switch on switch position 1226.3 A• for inside-delta circuit at rotary coding switch on switch position 1126.3 A• for inside-delta circuit at rotary coding switch on switch position 1227.5 A• for inside-delta circuit at rotary coding switch on switch position 1328.8 A• for inside-delta circuit at rotary coding switch on switch position 1430 A• for inside-delta circuit at rotary coding switch on switch position 1531.2 A• for inside-delta circuit at rotary coding switch on switch position 1631.2 A• at inside-delta circuit minimum13 A | switch position 3 | |
| switch position 519.1 A• for inside-delta circuit at rotary coding switch on switch position 720.3 A• for inside-delta circuit at rotary coding switch on switch position 720.3 A• for inside-delta circuit at rotary coding switch on switch position 821.5 A• for inside-delta circuit at rotary coding switch on switch position 922.7 A• for inside-delta circuit at rotary coding switch on switch position 1023.9 A• for inside-delta circuit at rotary coding switch on switch position 1125.1 A• for inside-delta circuit at rotary coding switch on switch position 1226.3 A• for inside-delta circuit at rotary coding switch on switch position 1226.3 A• for inside-delta circuit at rotary coding switch on switch position 1226.3 A• for inside-delta circuit at rotary coding switch on switch position 1228.8 A• for inside-delta circuit at rotary coding switch on switch position 1430 A• for inside-delta circuit at rotary coding switch on switch position 1531.2 A• for inside-delta circuit at rotary coding switch on switch position 1631.2 A | switch position 4 | |
| switch position 620.3 A• for inside-delta circuit at rotary coding switch on switch position 721.5 A• for inside-delta circuit at rotary coding switch on switch position 822.7 A• for inside-delta circuit at rotary coding switch on switch position 923.9 A• for inside-delta circuit at rotary coding switch on switch position 1025.1 A• for inside-delta circuit at rotary coding switch on switch position 1126.3 A• for inside-delta circuit at rotary coding switch on switch position 1126.3 A• for inside-delta circuit at rotary coding switch on switch position 1327.5 A• for inside-delta circuit at rotary coding switch on switch position 1327.5 A• for inside-delta circuit at rotary coding switch on switch position 1328.8 A• for inside-delta circuit at rotary coding switch on switch position 1430 A• for inside-delta circuit at rotary coding switch on switch position 1631.2 A• for inside-delta circuit at rotary coding switch on switch position 1631.2 A | switch position 5 | |
| switch position 721.5 A• for inside-delta circuit at rotary coding switch on switch position 822.7 A• for inside-delta circuit at rotary coding switch on switch position 923.9 A• for inside-delta circuit at rotary coding switch on switch position 1025.1 A• for inside-delta circuit at rotary coding switch on switch position 1126.3 A• for inside-delta circuit at rotary coding switch on switch position 1227.5 A• for inside-delta circuit at rotary coding switch on switch position 1328.8 A• for inside-delta circuit at rotary coding switch on switch position 1430 A• for inside-delta circuit at rotary coding switch on switch position 1531.2 A• for inside-delta circuit at rotary coding switch on switch position 1631.2 A | switch position 6 | |
| switch position 822.7 A• for inside-delta circuit at rotary coding switch on switch position 923.9 A• for inside-delta circuit at rotary coding switch on switch position 1025.1 A• for inside-delta circuit at rotary coding switch on switch position 1126.3 A• for inside-delta circuit at rotary coding switch on switch position 1227.5 A• for inside-delta circuit at rotary coding switch on switch position 1328.8 A• for inside-delta circuit at rotary coding switch on switch position 1430 A• for inside-delta circuit at rotary coding switch on switch position 1531.2 A• for inside-delta circuit at rotary coding switch on switch position 1531.2 A• for inside-delta circuit at rotary coding switch on switch position 1631.2 A | switch position 7 | |
| switch position 923.9 A• for inside-delta circuit at rotary coding switch on switch position 1025.1 A• for inside-delta circuit at rotary coding switch on switch position 1126.3 A• for inside-delta circuit at rotary coding switch on switch position 1227.5 A• for inside-delta circuit at rotary coding switch on switch position 1328.8 A• for inside-delta circuit at rotary coding switch on switch position 1430 A• for inside-delta circuit at rotary coding switch on switch position 1531.2 A• for inside-delta circuit at rotary coding switch on switch position 1531.2 A• for inside-delta circuit minimum13 A | switch position 8 | |
| switch position 1025.1 A• for inside-delta circuit at rotary coding switch on switch position 1125.1 A• for inside-delta circuit at rotary coding switch on switch position 1226.3 A• for inside-delta circuit at rotary coding switch on switch position 1327.5 A• for inside-delta circuit at rotary coding switch on switch position 1428.8 A• for inside-delta circuit at rotary coding switch on switch position 1530 A• for inside-delta circuit at rotary coding switch on switch position 1531.2 A• for inside-delta circuit at rotary coding switch on switch position 16 • at inside-delta circuit minimum13 Aminimum load [%]15 %; Relative to smallest settable le | switch position 9 | |
| switch position 1126.3 A• for inside-delta circuit at rotary coding switch on switch position 1226.3 A• for inside-delta circuit at rotary coding switch on switch position 1327.5 A• for inside-delta circuit at rotary coding switch on switch position 1428.8 A• for inside-delta circuit at rotary coding switch on switch position 1530 A• for inside-delta circuit at rotary coding switch on switch position 1531.2 A• for inside-delta circuit minimum13 A• at inside-delta circuit minimum15 %; Relative to smallest settable le | switch position 10 | |
| switch position 1227.5 A• for inside-delta circuit at rotary coding switch on switch position 1327.5 A• for inside-delta circuit at rotary coding switch on switch position 1428.8 A• for inside-delta circuit at rotary coding switch on switch position 1530 A• for inside-delta circuit at rotary coding switch on switch position 1531.2 A• for inside-delta circuit minimum13 A• minimum load [%]15 %; Relative to smallest settable le | switch position 11 | |
| • for inside-delta circuit at rotary coding switch on switch position 1428.8 A• for inside-delta circuit at rotary coding switch on switch position 1530 A• for inside-delta circuit at rotary coding switch on switch position 1531.2 A• for inside-delta circuit minimum13 A• minimum load [%]15 %; Relative to smallest settable le | switch position 12 | 27.5 A |
| • for inside-delta circuit at rotary coding switch on switch position 15 30 A • for inside-delta circuit at rotary coding switch on switch position 16 31.2 A • at inside-delta circuit minimum 13 A minimum load [%] 15 %; Relative to smallest settable le | for inside-delta circuit at rotary coding switch on | 28.8 A |
| • for inside-delta circuit at rotary coding switch on switch position 16 31.2 A • at inside-delta circuit minimum 13 A minimum load [%] 15 %; Relative to smallest settable le | for inside-delta circuit at rotary coding switch on | 30 A |
| • at inside-delta circuit minimum 13 A minimum load [%] 15 %; Relative to smallest settable le | for inside-delta circuit at rotary coding switch on | 31.2 A |
| minimum load [%] 15 %; Relative to smallest settable le | | 13 A |
| | | |
| | power loss [W] for rated value of the current at AC | |

| • at 40 °C after startup | 17 W |
|---|--|
| at 50 °C after startup | 17 W |
| • at 60 °C after startup | 16 W |
| power loss [W] at AC at current limitation 350 % | |
| • at 40 °C during startup | 276 W |
| • at 50 °C during startup | 241 W |
| • at 60 °C during startup | 200 W |
| Control circuit/ Control | |
| type of voltage of the control supply voltage | AC/DC |
| control supply voltage at AC | |
| at 50 Hz rated value | 24 V |
| at 60 Hz rated value | 24 V |
| relative negative tolerance of the control supply voltage at AC at 50 Hz | -20 % |
| relative positive tolerance of the control supply voltage at AC at 50 Hz | 20 % |
| relative negative tolerance of the control supply voltage at AC at 60 Hz | -20 % |
| relative positive tolerance of the control supply voltage at AC at 60 Hz | 20 % |
| control supply voltage frequency | 50 60 Hz |
| relative negative tolerance of the control supply voltage frequency | -10 % |
| relative positive tolerance of the control supply voltage frequency | 10 % |
| control supply voltage | |
| at DC rated value | 24 V |
| relative negative tolerance of the control supply voltage at DC | -20 % |
| relative positive tolerance of the control supply voltage at DC | 20 % |
| control supply current in standby mode rated value | 160 mA |
| holding current in bypass operation rated value | 360 mA |
| locked-rotor current at close of bypass contact maximum | 0.75 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 |
| Inputs/ Outputs | |
| number of digital inputs | 1 |
| number of digital outputs | 3 |
| not parameterizable | 2 |
| digital output version | 2 normally-open contacts (NO) / 1 changeover contact (CO) |
| number of analog outputs | 1 |
| switching capacity current of the relay outputs | |
| • at AC-15 at 250 V rated value | 3 A |
| • at DC-13 at 24 V rated value | 1 A |
| Installation/ mounting/ dimensions | |
| mounting position | +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface |
| fastening method | screw fixing |
| height | 275 mm |
| width | 170 mm |
| depth | 152 mm |
| required spacing with side-by-side mounting | 10 |
| • forwards | 10 mm |
| backwards | 0 mm |
| upwards | 100 mm |

| downwards | 75 mm |
|--|--|
| advinwards at the side | 75 mm 5 mm |
| weight without packaging | 2.1 kg |
| Connections/ Terminals | g |
| type of electrical connection | |
| for main current circuit | screw-type terminals |
| for control circuit | spring-loaded terminals |
| 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) |
| at 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) |
| at AWG cables for control circuit solid | 2x (24 16) |
| at AWG cables for control circuit finely stranded with | 2x (24 16) 2x (24 16) |
| core end processing | |
| wire length | |
| between soft starter and motor maximum | 800 m |
| at the digital inputs at AC maximum | 100 m |
| at the digital inputs at DC maximum | 1 000 m |
| tightening torque | |
| for main contacts with screw-type terminals | 2 2.5 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 | 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 | mist), 3S2 (sand must not get into the devices), 3M6 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must |
| | mist), 3S2 (sand must not get into the devices), 3M6 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 |
| during transport according to IEC 60721 | mist), 3S2 (sand must not get into the devices), 3M6 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) |
| during transport according to IEC 60721 EMC emitted interference | mist), 3S2 (sand must not get into the devices), 3M6 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 |
| • during transport according to IEC 60721 EMC emitted interference Communication/ Protocol | mist), 3S2 (sand must not get into the devices), 3M6 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) |
| • during transport according to IEC 60721 EMC emitted interference Communication/ Protocol communication module is supported | mist), 3S2 (sand must not get into the devices), 3M6 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A |
| • during transport according to IEC 60721 EMC emitted interference Communication/ Protocol | mist), 3S2 (sand must not get into the devices), 3M6 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) |
| • during transport according to IEC 60721 EMC emitted interference Communication/ Protocol communication module is supported • PROFINET standard | mist), 3S2 (sand must not get into the devices), 3M6 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A Yes |
| • during transport according to IEC 60721 EMC emitted interference Communication/ Protocol communication module is supported • PROFINET standard • EtherNet/IP | mist), 3S2 (sand must not get into the devices), 3M6 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A Yes Yes |
| • during transport according to IEC 60721 EMC emitted interference Communication/ Protocol communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU | mist), 3S2 (sand must not get into the devices), 3M6 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A Yes Yes |
| • during transport according to IEC 60721 EMC emitted interference Communication / Protocol emunication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP | mist), 3S2 (sand must not get into the devices), 3M6 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A Yes Yes Yes |
| • during transport according to IEC 60721 EMC emitted interference Communication/ Protocol • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS | mist), 3S2 (sand must not get into the devices), 3M6 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A Yes Yes Yes |
| e during transport according to IEC 60721 EMC emitted interference Communication/ Protocol communication module is supported PROFINET standard EtherNet/IP Modbus RTU Modbus TCP PROFIBUS UL/CSA ratings | mist), 3S2 (sand must not get into the devices), 3M6 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A Yes Yes Yes |
| e during transport according to IEC 60721 EMC emitted interference Communication/ Protocol communication module is supported PROFINET standard EtherNet/IP Modbus RTU Modbus TCP PROFIBUS UL/CSA ratings manufacturer's article number | mist), 3S2 (sand must not get into the devices), 3M6 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A Yes Yes Yes |
| e during transport according to IEC 60721 EMC emitted interference Communication Protocol communication module is supported PROFINET standard EtherNet/IP Modbus RTU Modbus TCP PROFIBUS UL/CSA ratings manufacturer's article number of circuit breaker — usable for Standard Faults at 460/480 V | mist), 3S2 (sand must not get into the devices), 3M6 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A Yes Yes Yes Yes Yes |
| e during transport according to IEC 60721 EMC emitted interference Communication/ Protocol communication module is supported PROFINET standard EtherNet/IP Modbus RTU Modbus TCP PROFIBUS UL/CSA ratings manufacturer's article number of circuit breaker | mist), 3S2 (sand must not get into the devices), 3M6 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A Yes Yes Yes Yes Yes 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 |

| — usable for St according to UL | tandard Faults at 575 | 5/600 V | Siemens | type: 3RV2742, m | iax. 60 A or 3VA51, r | nax. 60 A; Iq = 5 KA |
|---|--|---|--|---|-----------------------|----------------------|
| — usable for St | - tandard Faults at 575 cuit according to UL | 5/600 V at | Siemens | type: 3RV2742, m | ax. 60 A or 3VA51, r | nax. 60 A; Iq = 5 kA |
| of the fuse | | | | | | |
| | tandard Faults up to s | 575/600 V | Type: Cla | ss RK5 / K5, max | . 70 A; Iq = 5 kA | |
| 0 | igh Faults up to 575/6 | 600 V | Type: Cla | ss J / L, max. 70 / | A; lq = 100 kA | |
| — usable for St | - tandard Faults at insi 5/600 V according to | | Type: Cla | ss RK5 / K5, max | . 70 A; Iq = 5 kA | |
| | igh Faults at inside-de | | Type: Cla | ss J / L, max. 70 / | A; Iq = 100 kA | |
| operating power [hp] f | - | | | | | |
| • at 200/208 V at 50 | - | | 3 hp | | | |
| at 220/230 V at 50 at 220/230 V at 50 | | | 5 hp | | | |
| • at 460/480 V at 50 | | | 10 hp | | | |
| | | | | | | |
| • at 575/600 V at 50 | | | 10 hp | | | |
| value | iside-delta circuit at 5 | | 7.5 hp | | | |
| at 220/230 V at in value | iside-delta circuit at 5 | 50 °C rated | 7.5 hp | | | |
| ● at 460/480 V at in value | iside-delta circuit at 5 | 50 °C rated | 20 hp | | | |
| ● at 575/600 V at in value | iside-delta circuit at 5 | 50 °C rated | 25 hp | | | |
| contact rating of auxil | iary contacts accor | ding to UL | R300-B30 | 00 | | |
| afety related data | | | | | | |
| protection class IP on | the front according | to IEC | IP20 | | | |
| | the none according | | 11 20 | | | |
| 60529 | | | 11 20 | | | |
| 60529 touch protection on th | e front according to | | | e, for vertical cont | act from the front | |
| 60529 | e front according to | | finger-saf | e, for vertical cont ance with IEC 609 | | |
| 60529 touch protection on th | e front according to | | finger-saf | | | |
| 60529 touch protection on th electromagnetic comp | ne front according to patibility | | finger-saf | | | EMC |
| 60529 touch protection on th electromagnetic comp ertificates/ approvals | ne front according to patibility | | finger-saf | | | EMC |
| 60529 touch protection on th electromagnetic comp ertificates/ approvals | ne front according to patibility | | finger-saf in accorda | | | EMC |
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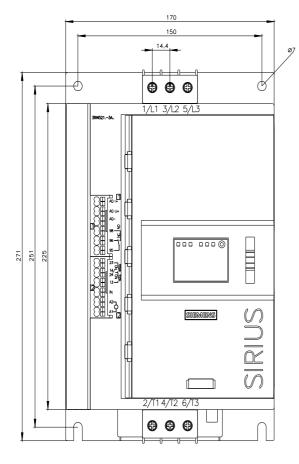
Characteristic: Tripping characteristics, I²t, Let-through current

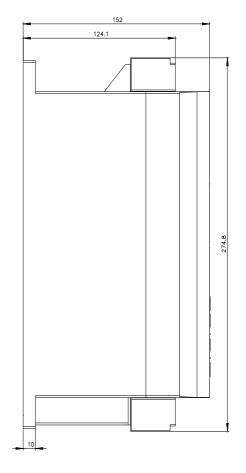
https://support.industry.siemens.com/cs/ww/en/ps/3RW5214-3AC05/char

Characteristic: Installation altitude

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5214-3AC05&objecttype=14&gridview=view1 Simulation Tool for Soft Starters (STS)

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