SIEMENS

Data sheet

3RW5224-1AC14



SIRIUS soft starter 200-480 V 47 A, 110-250 V AC Screw terminals Analog output

| product brand name | SIRIUS |
|---|---|
| product category | Hybrid switching devices |
| product designation | Soft starter |
| product type designation | 3RW52 |
| manufacturer's article number | |
| of standard HMI module usable | <u>3RW5980-0HS00</u> |
| of high feature HMI module usable | <u>3RW5980-0HF00</u> |
| of communication module PROFINET standard usable | <u>3RW5980-0CS00</u> |
| of communication module PROFIBUS usable | <u>3RW5980-0CP00</u> |
| of communication module Modbus TCP usable | <u>3RW5980-0CT00</u> |
| of communication module Modbus RTU usable | <u>3RW5980-0CR00</u> |
| of communication module Ethernet/IP | <u>3RW5980-0CE00</u> |
| of circuit breaker usable at 400 V | 3RV2032-4JA10; Type of coordination 1, Iq = 65 kA, CLASS 10 |
| of circuit breaker usable at 500 V | 3RV2032-4JA10; Type of coordination 1, Iq = 10 kA, CLASS 10 |
| of circuit breaker usable at 400 V at inside-delta circuit | 3RV2032-4RA10; Type of coordination 1, Iq = 65 kA, CLASS 10 |
| of circuit breaker usable at 500 V at inside-delta circuit | 3RV2032-4RA10; Type of coordination 1, Iq = 10 kA, CLASS 10 |
| of the gG fuse usable up to 690 V | 3NA3824-6; Type of coordination 1, Iq = 65 kA |
| of the gG fuse usable at inside-delta circuit up to 500 V | 3NA3824-6; Type of coordination 1, Iq = 65 kA |
| of full range R fuse link for semiconductor protection usable up to 690 V | <u>3NE1021-2; Type of coordination 2, Iq = 65 kA</u> |
| of back-up R fuse link for semiconductor protection usable up to 690 V | <u>3NE8024-1; Type of coordination 2, Iq = 65 kA</u> |

Gonoral tochnical dat

| General technical data | |
|---|--|
| starting voltage [%] | 30 100 % |
| stopping voltage [%] | 50 %; non-adjustable |
| start-up ramp time of soft starter | 0 20 s |
| current limiting value [%] adjustable | 130 700 % |
| certificate of suitability | |
| CE marking | Yes |
| UL approval | Yes |
| CSA approval | Yes |
| product component | |
| HMI-High Feature | No |
| is supported HMI-Standard | Yes |
| is supported HMI-High Feature | Yes |
| product feature integrated bypass contact system | Yes |
| number of controlled phases | 3 |
| trip class | CLASS 10A (default) / 10E / 20E; acc. to IEC 60947-4-2 |
| buffering time in the event of power failure | |
| for main current circuit | 100 ms |
| for control circuit | 100 ms |

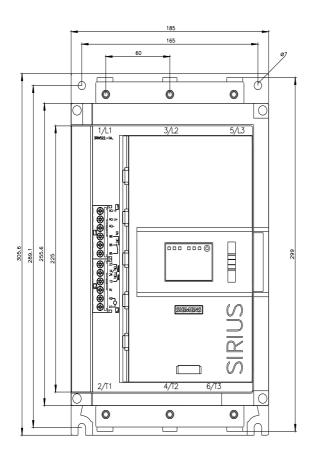
| insulation voltage rated value | 600 V |
|---|---|
| insulation voltage rated value | |
| degree of pollution | 3, acc. to IEC 60947-4-2 6 kV |
| impulse voltage rated value | |
| blocking voltage of the thyristor maximum | 1 400 V |
| service factor | |
| surge voltage resistance rated value | 6 kV |
| maximum permissible voltage for protective separation | 000.1/ |
| 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 | |
| analog output | Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) |
| Power Electronics | |
| operational current | |
| at 40 °C rated value | 47 A |
| • at 50 °C rated value | 41.6 A |
| at 60 °C rated value | 36.2 A |
| operational current at inside-delta circuit | 01.4.4 |
| • at 40 °C rated value | 81.4 A |
| • at 50 °C rated value | 72 A 62.7 A |
| at 60 °C rated value | 02.1 A |
| operating voltage | 200 490 \/ |
| rated value a st ipside delta singuit rated value | 200 480 V |
| at inside-delta circuit rated value | 200 480 V |
| relative negative tolerance of the operating voltage | -15 % |
| relative positive tolerance of the operating voltage | 10 % |
| relative negative tolerance of the operating voltage at inside-delta circuit | -15 % |
| relative positive tolerance of the operating voltage at inside-delta circuit | 10 % |
| operating power for 3-phase motors | |
| • at 230 V at 40 °C rated value | 11 kW |
| • at 230 V at inside-delta circuit at 40 °C rated value | 22 kW |
| • at 400 V at 40 °C rated value | 22 kW |
| • at 400 V at inside-delta circuit at 40 °C rated value | 45 kW |
| Operating frequency 1 rated value | 50 Hz |
| Operating frequency 2 rated value | 60 Hz |
| -personing inequality & future future | ···· |

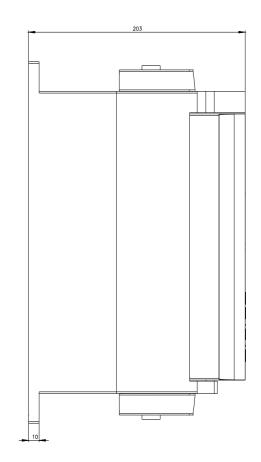
| risture parity toliname of the operating frequency 10 % alpitsable notor current 21 7 18 A alpitsable notor current 22 7 A alt carry coding switch on switch position 5 22 7 A alt carry coding switch on switch position 5 22 7 A alt carry coding switch on switch position 5 22 8 A alt carry coding switch on switch position 12 88 A alt carry coding switch no switch position 13 84 A alt carry coding switch no switch position 13 84 B alt carry coding switch no switch position 15 82 7 A alt carry coding switch no switch position 15 84 7 A alt carry coding switch no switch position 15 84 7 A alt carry coding switch no switch position 15 84 7 A alt carry coding switch no switch position 15 84 7 A alt carry coding switch no switch position 15 84 7 A alt carry coding switch no switch position 15 84 7 A alt carry coding switch no switch position 15 84 7 A alt carry coding switch no switch position 15 84 7 A alt carry coding switch no switch position 15 84 7 A alt carry coding switch no switch position 15 84 7 A alt carry coding switch no switch no switch position 2 8 8 A alt carry coding switch no switch no switch position 7 b for naids-data circuit at rotary coding switch no switch position 7 b for naids-data circuit at rotary coding switch no switch position 7 b for naids-data circuit at rotary coding switch no switch position 7 b for naids-data circuit at rotary coding switch no switch position 7 b for naids-data circuit at rotary coding switch no switch position 8 b for naids-data circuit at rotary coding switch no switch position 18 b for naids-data circuit at rotary coding switch no switch position 18 b | | |
|--|--|--|
| adjustAble motor current 20 A at roaty coding switch on switch position 1 20 A at roaty coding switch on switch position 3 23 B A at roaty coding switch on switch position 5 27 Z A at roaty coding switch on switch position 6 29 A at roaty coding switch on switch position 7 30 B A at roaty coding switch on switch position 7 30 B A at roaty coding switch on switch position 10 36 Z A at roaty coding switch on switch position 10 36 Z A at roaty coding switch on switch position 11 30 A at roaty coding switch on switch position 12 39 B A at roaty coding switch on switch position 13 41 B A at roaty coding switch on switch position 14 43 A at roaty coding switch on switch position 16 47 A at roaty coding switch on switch 46 A position 3 45 B A at roaty coding switch on switch 54 B A position 3 45 B A position 4 47 A position 5 52 A at roaty coding switch on switch 54 B A position 3 54 B A position 4 57 A <td>relative negative tolerance of the operating frequency</td> <td>-10 %</td> | relative negative tolerance of the operating frequency | -10 % |
| • at ratary coding switch on switch position 1 0 Å • at ratary coding switch on switch position 2 21.8 Å • at ratary coding switch on switch position 4 25.4 Å • at ratary coding switch on switch position 6 29.4 Å • at ratary coding switch on switch position 6 29.4 Å • at ratary coding switch on switch position 6 29.4 Å • at ratary coding switch on switch position 6 29.4 Å • at ratary coding switch on switch position 7 20.8 Å • at ratary coding switch on switch position 10 25.2 Å • at ratary coding switch on switch position 11 28.4 Å • at ratary coding switch on switch position 12 29.8 Å • at ratary coding switch on switch position 13 41.8 Å • at ratary coding switch on switch position 15 45.2 Å • at ratary coding switch on switch position 15 47.4 Å • at ratary coding switch on switch position 15 47.4 Å • at ratary coding switch on switch position 15 47.8 Å • at ratary coding switch on switch position 15 47.8 Å • at ratary coding switch on switch position 16 47.4 Å • at ratary coding switch on switch position 16 47.8 Å • at ratary coding switch on switch position 16 47.8 Å • at ratary coding switch on switch position 16 47.8 Å • at ratary coding switc | relative positive tolerance of the operating frequency | 10 % |
| el ratio coding switch on switch position 2 218 A el tratay coding switch on switch position 3 238 A et ratay coding switch on switch position 5 27 A et ratay coding switch on switch position 7 208 A et ratay coding switch on switch position 7 208 A et ratay coding switch on switch position 7 208 A et ratay coding switch on switch position 7 208 A et ratay coding switch on switch position 10 22 A et ratay coding switch on switch position 11 36 A et ratay coding switch on switch position 12 38 A et ratay coding switch on switch position 14 47 A et ratay coding switch on switch position 15 45 A et ratay coding switch on switch position 16 47 A et ratay coding switch on switch position 16 47 A et ratay coding switch on switch position 16 47 A et ratay coding switch on switch position 16 47 A et ratay coding switch on switch position 16 47 A position 3 of rinside-data circuit at ratay coding switch on switch position 16 47 A position 5 of rinside-data circuit at ratay coding switch on switch position 5 of rinside-data circuit at ratay coding switch on switch position 5 of rinside-data circuit at ratay coding switch on switch position 5 of rinside-data circuit at ratay coding switch on switch position 5 of rinside-data circuit at ratay coding switch on switch position 5 of rinside-data circuit at ratay coding switch on switch position 5 of rinside-data circuit at ratay coding switch on switch position 5 of rinside-data circuit at | adjustable motor current | |
| et rotary coding switch on switch position 323.6 A• at rotary coding switch on switch position 425.4 A• at rotary coding switch on switch position 629.4 A• at rotary coding switch on switch position 730.6 A• at rotary coding switch on switch position 1032.6 A• at rotary coding switch on switch position 1032.6 A• at rotary coding switch on switch position 1138.6 A• at rotary coding switch on switch position 1138.6 A• at rotary coding switch on switch position 1341.6 A• at rotary coding switch on switch position 1545.2 A• at rotary coding switch on switch position 1545.2 A• at rotary coding switch on switch position 1545.2 A• at rotary coding switch on switch position 1545.2 A• at rotary coding switch on switch position 1545.2 A• at rotary coding switch on switch position 1545.2 A• at rotary coding switch on switch position 1545.2 A• at rotary coding switch on switch position 1545.2 A• at rotary coding switch on switch position 1545.2 A• for inside-folta circuit at rotary coding switch on switch position 1545.2 A• for inside-folta circuit at rotary coding switch on switch position 1545.8 A• for inside-folta circuit at rotary coding switch on switch position 1545.8 A• for inside-folta circuit at rotary coding switch on switch position 1555.5 A• for inside-folta circuit at rotary coding switch on switch position 1555.8 A• for inside-folta circuit at rotary coding switch on switch position 1 | at rotary coding switch on switch position 1 | 20 A |
| et rubuy coding switch on switch position 4254 A• at rubuy coding switch on switch position 527 A• at rubuy coding switch on switch position 730.8 A• at rubuy coding switch on switch position 932.4 A• at rubuy coding switch on switch position 934.4 A• at rubuy coding switch on switch position 1032.A• at rubuy coding switch on switch position 1138.A• at rubuy coding switch on switch position 1238.A• at rubuy coding switch on switch position 1238.A• at rubuy coding switch on switch position 1445.A• at rubuy coding switch on switch position 1445.A• at rubuy coding switch on switch position 1647.A• for inade-delia circuit at rubuy coding switch on switch34.6 A• for inade-delia circuit at rubuy coding switch on switch34.8 A• for inade-delia circuit at rubuy coding switch on switch34.8 A• for inade-delia circuit at rubuy coding switch on switch34.8 A• for inade-delia circuit at rubuy coding switch on switch34.8 A• for inade-delia circuit at rubuy coding switch on switch35.8 A• for inade-delia circuit at rubuy coding switch on switch35.8 A• for inade-delia circuit at rubuy coding switch on switch35.8 A• for inade-delia circuit at rubuy coding switch on switch35.3 A• for inade-delia circuit at rubuy coding switch on switch55.2 A• for inade-delia circuit at rubuy coding switch on switch55.8 A• for inade-delia circuit at rubuy coding switch on switch55.8 A• for inade-de | at rotary coding switch on switch position 2 | 21.8 A |
| entrology coding switch on switch position 527.2 Åint rolagy coding switch on switch position 629 Åint rolagy coding switch on switch position 822.6 Åint rolagy coding switch on switch position 1032.6 Åint rolagy coding switch on switch position 1032.8 Åint rolagy coding switch on switch position 1138.8 Åint rolagy coding switch on switch position 1238.8 Åint rolagy coding switch on switch position 1341.6 Åint rolagy coding switch on switch position 1443.4 Åint rolagy coding switch on switch position 1547.6 Åint rolagi coding coding switch on switch position 15 <td< td=""><td> at rotary coding switch on switch position 3 </td><td>23.6 A</td></td<> | at rotary coding switch on switch position 3 | 23.6 A |
| | at rotary coding switch on switch position 4 | 25.4 A |
| | at rotary coding switch on switch position 5 | 27.2 A |
| • at rotary coding switch on switch position 0 32.6 A • at rotary coding switch on switch position 10 32.2 A • at rotary coding switch on switch position 11 38.8 A • at rotary coding switch on switch position 12 38.8 A • at rotary coding switch on switch position 13 41.6 A • at rotary coding switch on switch position 14 43.4 A • at rotary coding switch on switch position 15 45.2 A • at rotary coding switch on switch position 15 45.2 A • at rotary coding switch on switch position 15 45.2 A • at rotary coding switch on switch position 16 47.4 • niminum 20.A adjutable motor curront 54.6 A • for inside-delia circul at rotary coding switch on switch 34.6 A position 1 54.6 A • for inside-delia circul at rotary coding switch on switch 34.6 A position 5 55.6 A • for inside-delia circul at rotary coding switch on switch 50.2 A position 5 50.2 A • for inside-delia circul at rotary coding switch on switch 50.2 A position 6 50.2 A • for inside-delia circul at rotary coding switch on switch 50.2 A position 7 50.8 A • for inside-delia circul at rotary coding switch on switch 50.8 A <td< td=""><td> at rotary coding switch on switch position 6 </td><td>29 A</td></td<> | at rotary coding switch on switch position 6 | 29 A |
| e at rotary coding switch on switch position 10 36.2 A e at rotary coding switch on switch position 12 38.8 A e at rotary coding switch on switch position 12 38.8 A e at rotary coding switch on switch position 12 38.8 A e at rotary coding switch on switch position 13 41.6 A e at rotary coding switch on switch position 15 45.2 A e at rotary coding switch on switch position 15 45.2 A e at rotary coding switch on switch position 15 45.2 A e niminum 20.1 e notinitum 20.1 e notinitum 20.8 e notiniside e e ita notary coding switch on switch | at rotary coding switch on switch position 7 | 30.8 A |
| at rotary coding switch on switch position 11 38.A at rotary coding switch on switch position 12 39.B A at rotary coding switch on switch position 13 41.B A at rotary coding switch on switch position 13 41.B A at rotary coding switch on switch position 15 45.2 A at rotary coding switch on switch position 16 47.A at rotary coding switch on switch position 16 47.A at rotary coding switch on switch position 16 47.B A at rotary coding switch on switch position 16 47.B A at rotary coding switch on switch position 16 47.B A at rotary coding switch on switch position 16 47.B A at rotary coding switch on switch position 16 47.B A at rotary coding switch on switch position 17 57.B A 58.B A 57.B A 58.B A 58.B A 58.B A 57.B A 58.B A 58.B A 58.B A 58.B A 59.C B 59.B A 59.B A | at rotary coding switch on switch position 8 | 32.6 A |
| • at rotary coding switch on switch position 12 39.8 A • at rotary coding switch on switch position 13 41.6 A • at rotary coding switch on switch position 13 41.6 A • at rotary coding switch on switch position 14 43.4 A • at rotary coding switch on switch position 15 45.2 A • at rotary coding switch on switch position 16 47.4 • minimum 20.1 • for inside-defla circuit at rotary coding switch on switch position 16 97.8 A • for inside-defla circuit at rotary coding switch on switch position 17 90.9 A • for inside-defla circuit at rotary coding switch on switch position 18 97.8 A • for inside-defla circuit at rotary coding switch on switch position 19 97.8 A • for inside-defla circuit at rotary coding switch on switch position 16 47.1 A • for inside-defla circuit at rotary coding switch on switch position 16 50.2 A • for inside-defla circuit at rotary coding switch on switch position 15 50.2 A • for inside-defla circuit at rotary coding switch on switch position 16 50.8 A • for inside-defla circuit at rotary coding switch on switch position 17 50.6 A position 10 65.8 A • for inside-defla circuit at rotary coding switch on switch position 18 62.7 A | at rotary coding switch on switch position 9 | 34.4 A |
| • at rotary coding switch on switch position 12 39.8 A • at rotary coding switch on switch position 13 41.6 A • at rotary coding switch on switch position 15 45.2 A • at rotary coding switch on switch position 16 47.0 A • at rotary coding switch on switch position 16 47.0 A • at rotary coding switch on switch position 16 47.0 A • or inside-delta circuit at rotary coding switch on switch position 16 37.8 A • for inside-delta circuit at rotary coding switch on switch position 16 47.1 A • for inside-delta circuit at rotary coding switch on switch position 16 47.1 A • for inside-delta circuit at rotary coding switch on switch position 16 50.2 A • for inside-delta circuit at rotary coding switch on switch position 16 50.2 A • for inside-delta circuit at rotary coding switch on switch position 16 50.2 A • for inside-delta circuit at rotary coding switch on switch position 16 50.2 A • for inside-delta circuit at rotary coding switch on switch position 16 50.2 A • for inside-delta circuit at rotary coding switch on switch position 18 50.2 A • for inside-delta circuit at rotary coding switch on switch position 18 50.2 A • for inside-delta circuit at rotary coding switch on switch position 18 50.2 A • for inside-delta circuit at rotary coding switch on switch position 19 50.2 A • | at rotary coding switch on switch position 10 | 36.2 A |
| • at rotary coding switch on switch position 14 43.4 A • at rotary coding switch on switch position 16 47.A • at rotary coding switch on switch position 16 20.A • for inside-defla circuit at rotary coding switch on switch position 16 36.8 A • for inside-defla circuit at rotary coding switch on switch position 16 37.8 A • for inside-defla circuit at rotary coding switch on switch position 16 47.A • for inside-defla circuit at rotary coding switch on switch position 3 36.8 A • for inside-defla circuit at rotary coding switch on switch position 3 46.A • for inside-defla circuit at rotary coding switch on switch position 3 50.2 A • for inside-defla circuit at rotary coding switch on switch position 5 50.2 A • for inside-defla circuit at rotary coding switch on switch position 5 50.5 A • for inside-defla circuit at rotary coding switch on switch position 6 50.5 A • for inside-defla circuit at rotary coding switch on switch position 10 50.6 A • for inside-defla circuit at rotary coding switch on switch position 13 50.6 A • for inside-defla circuit at rotary coding switch on switch position 14 50.8 A • for inside-defla circuit at rotary coding switch on switch position 15 50.8 A • for inside-defla circuit at rotary cod | at rotary coding switch on switch position 11 | 38 A |
| • at rotary coding switch on switch position 14 43.4 Å • at rotary coding switch on switch position 15 45.2 Å • at rotary coding switch on switch position 16 20 Å adjustable motor current 30.4 Å • for inside-delta circuit at rotary coding switch on switch position 16 37.8 Å • for inside-delta circuit at rotary coding switch on switch position 4 40.9 Å • for inside-delta circuit at rotary coding switch on switch position 4 40.9 Å • for inside-delta circuit at rotary coding switch on switch position 4 40.9 Å • for inside-delta circuit at rotary coding switch on switch position 4 40.9 Å • for inside-delta circuit at rotary coding switch on switch position 4 50.2 Å • for inside-delta circuit at rotary coding switch on switch position 5 53.3 Å • for inside-delta circuit at rotary coding switch on switch position 16 55.8 Å • for inside-delta circuit at rotary coding switch on switch position 16 65.8 Å • for inside-delta circuit at rotary coding switch on switch position 17 65.8 Å • for inside-delta circuit at rotary coding switch on switch position 16 65.8 Å • for inside-delta circuit at rotary coding switch on switch position 17 72.1 Å • for inside-delta circuit | at rotary coding switch on switch position 12 | 39.8 A |
| • at rotary coding switch on switch position 16 45.2 Å • at rotary coding switch on switch position 16 47 Å • minimum 20 Å adjutation of current 34.6 Å • for inside-delta circuit at rotary coding switch on switch position 1 37.8 Å • for inside-delta circuit at rotary coding switch on switch position 3 40.9 Å • for inside-delta circuit at rotary coding switch on switch position 5 50.2 Å • for inside-delta circuit at rotary coding switch on switch position 6 50.2 Å • for inside-delta circuit at rotary coding switch on switch position 6 50.2 Å • for inside-delta circuit at rotary coding switch on switch position 7 50.6 Å • for inside-delta circuit at rotary coding switch on switch position 6 50.8 Å • for inside-delta circuit at rotary coding switch on switch position 7 50.6 Å • for inside-delta circuit at rotary coding switch on switch position 7 50.6 Å • for inside-delta circuit at rotary coding switch on switch position 7 50.6 Å • for inside-delta circuit at rotary coding switch on switch position 16 50.8 Å • for inside-delta circuit at rotary coding switch on switch position 17 50.6 Å • for inside-delta circuit at rotary coding switch on switch position 18 50.6 Å | at rotary coding switch on switch position 13 | 41.6 A |
| tartoray coding switch on switch position 16 iminimum 20 A additable motor current if or inside-delta circuit at rotary coding switch on switch position 1 if or inside-delta circuit at rotary coding switch on switch position 3 if or inside-delta circuit at rotary coding switch on switch position 4 if or inside-delta circuit at rotary coding switch on switch position 5 if or inside-delta circuit at rotary coding switch on switch position 5 if or inside-delta circuit at rotary coding switch on switch position 6 if or inside-delta circuit at rotary coding switch on switch position 6 if or inside-delta circuit at rotary coding switch on switch position 6 if or inside-delta circuit at rotary coding switch on switch position 6 if or inside-delta circuit at rotary coding switch on switch position 6 if or inside-delta circuit at rotary coding switch on switch position 6 if or inside-delta circuit at rotary coding switch on switch position 6 if or inside-delta circuit at rotary coding switch on switch position 7 if or inside-delta circuit at rotary coding switch on switch position 7 if or inside-delta circuit at rotary coding switch on switch position 10 if or inside-delta circuit at rotary coding switch on switch position 12 if or inside-delta circuit at rotary coding switch on switch position 13 if or inside-delta circuit at rotary coding switch on switch position 14 if or inside-delta circuit at rotary coding switch on switch position 15 if or inside-delta circuit at rotary coding switch on switch position 15 if or inside-delta circuit at rotary coding switch on switch position 14 if or inside-delta circuit at rotary coding switch on switch position 15 if or inside-delta circuit at rotary coding switch on switch position 15 if or inside-delta circuit at rotary coding switch on switch position 14 if or in | at rotary coding switch on switch position 14 | 43.4 A |
| • minimum 20 Å adjustable motor current | at rotary coding switch on switch position 15 | 45.2 A |
| adjustable motor current for inside-defla circuit at rotary coding switch on switch position 1 for inside-defla circuit at rotary coding switch on switch position 2 for inside-defla circuit at rotary coding switch on switch position 3 for inside-defla circuit at rotary coding switch on switch position 3 for inside-defla circuit at rotary coding switch on switch position 3 for inside-defla circuit at rotary coding switch on switch position 4 for inside-defla circuit at rotary coding switch on switch position 5 for inside-defla circuit at rotary coding switch on switch position 5 for inside-defla circuit at rotary coding switch on switch position 7 for inside-defla circuit at rotary coding switch on switch position 10 for inside-defla circuit at rotary coding switch on switch position 10 for inside-defla circuit at rotary coding switch on switch position 10 for inside-defla circuit at rotary coding switch on switch position 10 for inside-defla circuit at rotary coding switch on switch position 11 for inside-defla circuit at rotary coding switch on switch position 12 for inside-defla circuit at rotary coding switch on switch position 12 for inside-defla circuit at rotary coding switch on switch position 13 for inside-defla circuit at rotary coding switch on switch position 12 for inside-defla circuit at rotary coding switch on switch position 12 for inside-defla circuit at rotary coding switch on switch position 13 for inside-defla circuit at rotary coding switch on switch position 14 for inside-defla circuit at rotary coding switch on switch position 14 for inside-defla circuit | at rotary coding switch on switch position 16 | 47 A |
| for inside-delta circuit at rotary coding switch on switch position 1 for inside-delta circuit at rotary coding switch on switch position 3 for inside-delta circuit at rotary coding switch on switch position 4 for inside-delta circuit at rotary coding switch on switch position 5 for inside-delta circuit at rotary coding switch on switch position 5 for inside-delta circuit at rotary coding switch on switch position 6 for inside-delta circuit at rotary coding switch on switch position 6 for inside-delta circuit at rotary coding switch on switch position 7 for inside-delta circuit at rotary coding switch on switch position 7 for inside-delta circuit at rotary coding switch on switch position 7 for inside-delta circuit at rotary coding switch on switch position 7 for inside-delta circuit at rotary coding switch on switch position 7 for inside-delta circuit at rotary coding switch on switch position 10 for inside-delta circuit at rotary coding switch on switch position 11 for inside-delta circuit at rotary coding switch on switch position 12 for inside-delta circuit at rotary coding switch on switch position 13 for inside-delta circuit at rotary coding switch on switch position 13 for inside-delta circuit at rotary coding switch on switch position 13 for inside-delta circuit at rotary coding switch on switch position 14 for inside-delta circuit at rotary coding switch on switch position 15 for inside-delta circuit at rotary coding switch on switch position 13 for inside-delta circuit at rotary coding switch on switch position 14 for inside-delta circuit at rotary coding switch on switch position 15 for inside-delta circuit at rotary coding switch on switch position 15 for inside-delta circuit at r | • minimum | 20 A |
| position 1 37.8 A • or inside-delta circuit at rotary coding switch on switch 40.9 A • for inside-delta circuit at rotary coding switch on switch 40.9 A • or inside-delta circuit at rotary coding switch on switch 44 A • for inside-delta circuit at rotary coding switch on switch 47.1 A • for inside-delta circuit at rotary coding switch on switch 50.2 A • for inside-delta circuit at rotary coding switch on switch 50.2 A • for inside-delta circuit at rotary coding switch on switch 50.2 A • for inside-delta circuit at rotary coding switch on switch 50.5 A • for inside-delta circuit at rotary coding switch on switch 50.6 A • for inside-delta circuit at rotary coding switch on switch 55.6 A • for inside-delta circuit at rotary coding switch on switch 65.8 A • for inside-delta circuit at rotary coding switch on switch 65.8 A • for inside-delta circuit at rotary coding switch on switch 75.2 A • for inside-delta circuit at rotary coding switch on switch 75.2 A • for inside-delta circuit at rotary coding switch on switch 75.2 A • for inside-delta circuit at rotary coding switch on switch 75.2 A • for inside-delta c | adjustable motor current | |
| position 2 40.9 A • for inside-defta circuit at rotary coding switch on switch position 4 40.9 A • for inside-defta circuit at rotary coding switch on switch position 4 44 A • for inside-defta circuit at rotary coding switch on switch position 5 47.1 A • for inside-defta circuit at rotary coding switch on switch position 5 50.2 A • for inside-defta circuit at rotary coding switch on switch position 5 50.2 A • for inside-defta circuit at rotary coding switch on switch position 7 50.5 A • for inside-defta circuit at rotary coding switch on switch position 8 50.5 A • for inside-defta circuit at rotary coding switch on switch position 9 50.6 A • for inside-defta circuit at rotary coding switch on switch position 10 52.6 A • for inside-defta circuit at rotary coding switch on switch position 10 62.7 A • for inside-defta circuit at rotary coding switch on switch position 10 62.8 A • for inside-defta circuit at rotary coding switch on switch position 13 72.1 A • for inside-defta circuit at rotary coding switch on switch position 14 65.8 A • for inside-defta circuit at rotary coding switch on switch position 15 75.2 A • for inside-defta circuit at rotary coding switch on switch position 15 75.2 A • for inside-defta circ | | 34.6 A |
| position 3 44 A • for inside-delta circuit at rotary coding switch on switch position 4 44 A • for inside-delta circuit at rotary coding switch on switch position 5 47.1 A • for inside-delta circuit at rotary coding switch on switch position 5 50.2 A • for inside-delta circuit at rotary coding switch on switch position 7 50.2 A • for inside-delta circuit at rotary coding switch on switch position 7 50.5 A • for inside-delta circuit at rotary coding switch on switch position 9 50.6 A • for inside-delta circuit at rotary coding switch on switch position 19 59.6 A • for inside-delta circuit at rotary coding switch on switch position 19 62.7 A • for inside-delta circuit at rotary coding switch on switch position 10 62.7 A • for inside-delta circuit at rotary coding switch on switch position 12 62.8 A • for inside-delta circuit at rotary coding switch on switch position 12 61.9 A • for inside-delta circuit at rotary coding switch on switch position 13 72.1 A • for inside-delta circuit at rotary coding switch on switch position 14 64.9 A • for inside-delta circuit at rotary coding switch on switch position 15 72.1 A • for inside-delta circuit at rotary coding switch on switch position 14 75.2 A • for inside-delta circ | position 2 | |
| position 4 47.1 A • for inside-delta circuit at rotary coding switch on switch position 5 47.1 A • for inside-delta circuit at rotary coding switch on switch position 6 50.2 A • for inside-delta circuit at rotary coding switch on switch position 7 53.3 A • for inside-delta circuit at rotary coding switch on switch position 8 66.5 A • for inside-delta circuit at rotary coding switch on switch position 9 60.7 Inside-delta circuit at rotary coding switch on switch position 9 • for inside-delta circuit at rotary coding switch on switch position 10 62.7 A • for inside-delta circuit at rotary coding switch on switch position 10 65.8 A • for inside-delta circuit at rotary coding switch on switch position 12 65.8 A • for inside-delta circuit at rotary coding switch on switch position 13 72.1 A • for inside-delta circuit at rotary coding switch on switch position 13 75.2 A • for inside-delta circuit at rotary coding switch on switch position 14 76.3 A • for inside-delta circuit at rotary coding switch on switch position 15 78.3 A • for inside-delta circuit at rotary coding switch on switch position 16 81.4 A • for inside-delta circuit at rotary coding switch on switch position 15 78.3 A • for inside-delta circuit at rotary coding switch on switch position 15 | position 3 | |
| position 5 • for inside-delta circuit at rotary coding switch on switch position 6 50.2 A • for inside-delta circuit at rotary coding switch on switch position 7 53.3 A • for inside-delta circuit at rotary coding switch on switch position 9 56.5 A • for inside-delta circuit at rotary coding switch on switch position 9 59.6 A • for inside-delta circuit at rotary coding switch on switch position 10 62.7 A • for inside-delta circuit at rotary coding switch on switch position 10 65.8 A • for inside-delta circuit at rotary coding switch on switch position 11 67.7 A • for inside-delta circuit at rotary coding switch on switch position 12 67.7 A • for inside-delta circuit at rotary coding switch on switch position 13 67.2 A • for inside-delta circuit at rotary coding switch on switch position 14 72.1 A • for inside-delta circuit at rotary coding switch on switch position 15 73.3 A • for inside-delta circuit at rotary coding switch on switch position 14 74.1 A • for inside-delta circuit at rotary coding switch on switch position 16 81.4 A • at inside-delta circuit at rotary coding switch on switch position 15 74.6 A • at inside-delta circuit at rotary coding switch on switch position 16 34.6 A • at inside-delta circuit at rotary coding switch on switch | position 4 | |
| position 6 | position 5 | |
| position 7 | position 6 | |
| position 89.6 r• for inside-delta circuit at rotary coding switch on switch position 959.6 A• for inside-delta circuit at rotary coding switch on switch position 1162.7 A• for inside-delta circuit at rotary coding switch on switch position 1165.8 A• for inside-delta circuit at rotary coding switch on switch position 1165.8 A• for inside-delta circuit at rotary coding switch on switch position 1268.9 A• for inside-delta circuit at rotary coding switch on switch position 1375.2 A• for inside-delta circuit at rotary coding switch on switch position 1475.2 A• for inside-delta circuit at rotary coding switch on switch position 1478.3 A• for inside-delta circuit at rotary coding switch on switch position 1681.4 A• for inside-delta circuit at rotary coding switch on switch position 1681.4 A• for inside-delta circuit at rotary coding switch on switch position 1681.4 A• for inside-delta circuit at rotary coding switch on switch position 1681.4 A• for inside-delta circuit minimum34.6 A• for inside-delta circuit minimum24.6 W• at 10 °C after startup • at 60 °C after startup26 W• at 40 °C after startup23 W• at 40 °C after startup606 W• at 40 °C during startup602 W• at 60 °C during startup438 W• at 60 °C during startup438 W• at 60 °C during startup438 W | position 7 | |
| position 9C• for inside-delta circuit at rotary coding switch on switch position 1062.7 A• for inside-delta circuit at rotary coding switch on switch position 1165.8 A• for inside-delta circuit at rotary coding switch on switch position 1268.9 A• for inside-delta circuit at rotary coding switch on switch position 1372.1 A• for inside-delta circuit at rotary coding switch on switch position 1375.2 A• for inside-delta circuit at rotary coding switch on switch position 1475.2 A• for inside-delta circuit at rotary coding switch on switch position 1578.3 A• for inside-delta circuit at rotary coding switch on switch position 1681.4 A• for inside-delta circuit at rotary coding switch on switch position 1681.4 A• at inside-delta circuit at rotary coding switch on switch position 1626 W• at inside-delta circuit at rotary coding switch on switch position 1626 W• at inside-delta circuit at rotary coding switch on switch position 1623 W• at inside-delta circuit at rotary coding switch on switch position 1626 W• at inside-delta circuit at rotary coding switch on switch position 1626 W• at 60 °C after startup23 W• at 60 °C after startup23 W• at 60 °C during startup606 W• at 60 °C during startup606 W• at 60 °C during startup438 W• ontrol circuit/ Control438 W | position 8 | |
| • for inside-delta circuit at rotary coding switch on switch position 1165.8 A• for inside-delta circuit at rotary coding switch on switch position 1268.9 A• for inside-delta circuit at rotary coding switch on switch position 1372.1 A• for inside-delta circuit at rotary coding switch on switch position 1375.2 A• for inside-delta circuit at rotary coding switch on switch position 1478.3 A• for inside-delta circuit at rotary coding switch on switch position 1578.3 A• for inside-delta circuit at rotary coding switch on switch position 1681.4 A• for inside-delta circuit minimum34.6 Aminimum load [%]15 %; Relative to smallest settable lepower loss [W] for rated value of the current at AC26 W• at 40 °C after startup • at 60 °C after startup23 Wpower loss [W] at AC at current limitation 350 %606 W• at 40 °C during startup • at 60 °C during startup606 W• at 60 °C during startup • at 60 °C during startup522 W• at 60 °C during startup • at 60 °C during startup522 W• at 60 °C during startup522 W <td>-</td> <td>62.7 A</td> | - | 62.7 A |
| for inside-delta circuit at rotary coding switch on switch position 1268.9 A• for inside-delta circuit at rotary coding switch on switch position 1372.1 A• for inside-delta circuit at rotary coding switch on switch position 1475.2 A• for inside-delta circuit at rotary coding switch on switch position 1578.3 A• for inside-delta circuit at rotary coding switch on switch position 1578.3 A• for inside-delta circuit at rotary coding switch on switch position 1681.4 A• at inside-delta circuit minimum34.6 A• at inside-delta circuit minimum34.6 A• at united [%]15 %; Relative to smallest settable le• power loss [W] for rated value of the current at AC • at 40 °C after startup • at 60 °C after startup • at 60 °C during startup26 W• at 40 °C during startup • at 40 °C during startup606 W• at 40 °C during startup • at 60 °C during startup606 W• at 60 °C during startup • at 60 °C during startup522 W• at 60 °C during startup • at 60 °C during startup638 W | for inside-delta circuit at rotary coding switch on switch | 65.8 A |
| for inside-delta circuit at rotary coding switch on switch position 1372.1 A• for inside-delta circuit at rotary coding switch on switch position 1475.2 A• for inside-delta circuit at rotary coding switch on switch position 1578.3 A• for inside-delta circuit at rotary coding switch on switch position 1681.4 A• for inside-delta circuit at rotary coding switch on switch position 1634.6 A• at inside-delta circuit minimum34.6 A• at inside-delta circuit minimum24.6 W• at 40 °C after startup • at 60 °C after startup26 W• at 40 °C after startup • at 60 °C during startup23 W• power loss [W] at AC at current limitation 350 % • at 40 °C during startup606 W• at 60 °C during startup • at 60 °C during startup438 W• ontrol circuit/ Control438 W | for inside-delta circuit at rotary coding switch on switch | 68.9 A |
| for inside-delta circuit at rotary coding switch on switch position 1475.2 A• for inside-delta circuit at rotary coding switch on switch position 1578.3 A• for inside-delta circuit at rotary coding switch on switch position 1681.4 A• at inside-delta circuit at rotary coding switch on switch position 1681.4 A• at inside-delta circuit minimum34.6 A• at inside-delta circuit minimum34.6 A• at a do °C after startup26 W• at 40 °C after startup26 W• at 60 °C after startup23 W• at 0° C after startup24 W• at 0° C after startup23 W• at 40 °C during startup606 W• at 0° C during startup522 W• at 0° C during startup438 W• at 0° °C during startup438 W | • for inside-delta circuit at rotary coding switch on switch | 72.1 A |
| for inside-delta circuit at rotary coding switch on switch position 15 for inside-delta circuit at rotary coding switch on switch position 16 at inside-delta circuit at rotary coding switch on switch position 16 at inside-delta circuit minimum 34.6 A minimum load [%] 15 %; Relative to smallest settable le power loss [W] for rated value of the current at AC at 40 °C after startup at 50 °C after startup at 60 °C during startup at 40 °C during startup 606 W at 40 °C during startup 522 W at 60 °C during startup 438 W | for inside-delta circuit at rotary coding switch on switch | 75.2 A |
| for inside-delta circuit at rotary coding switch on switch position 1681.4 Aat inside-delta circuit minimum34.6 Aminimum load [%]15 %; Relative to smallest settable lepower loss [W] for rated value of the current at AC26 We at 40 °C after startup26 We at 50 °C after startup24 We at 60 °C after startup23 Wpower loss [W] at AC at current limitation 350 %606 We at 40 °C during startup606 We at 60 °C during startup522 We at 60 °C during startup438 W | • for inside-delta circuit at rotary coding switch on switch | 78.3 A |
| minimum load [%] 15 %; Relative to smallest settable le power loss [W] for rated value of the current at AC 26 W • at 40 °C after startup 26 W • at 50 °C after startup 24 W • at 60 °C after startup 23 W power loss [W] at AC at current limitation 350 % 606 W • at 40 °C during startup 606 W • at 60 °C during startup 522 W • at 60 °C during startup 438 W | | 81.4 A |
| power loss [W] for rated value of the current at AC• at 40 °C after startup26 W• at 50 °C after startup24 W• at 60 °C after startup23 Wpower loss [W] at AC at current limitation 350 %• at 40 °C during startup606 W• at 60 °C during startup522 W• at 60 °C during startup438 W• ontrol circuit/ Control | • at inside-delta circuit minimum | 34.6 A |
| • at 40 °C after startup 26 W • at 50 °C after startup 24 W • at 60 °C after startup 23 W power loss [W] at AC at current limitation 350 % | minimum load [%] | 15 %; Relative to smallest settable le |
| • at 50 °C after startup24 W• at 60 °C after startup23 Wpower loss [W] at AC at current limitation 350 %606 W• at 40 °C during startup606 W• at 50 °C during startup522 W• at 60 °C during startup438 W | power loss [W] for rated value of the current at AC | |
| • at 60 °C after startup 23 W power loss [W] at AC at current limitation 350 % 606 W • at 40 °C during startup 606 W • at 50 °C during startup 522 W • at 60 °C during startup 438 W | • at 40 °C after startup | 26 W |
| power loss [W] at AC at current limitation 350 % 606 W • at 40 °C during startup 606 W • at 50 °C during startup 522 W • at 60 °C during startup 438 W ontrol circuit/ Control 606 W | ● at 50 °C after startup | |
| | ● at 60 °C after startup | 23 W |
| at 50 °C during startup at 60 °C during startup 438 W ontrol circuit/ Control | | |
| at 60 °C during startup 438 W control circuit/ Control | | |
| control circuit/ Control | | |
| | | 438 W |
| type of voltage of the control supply voltage AC | control circuit/ Control | |
| | type of voltage of the control supply voltage | AC |

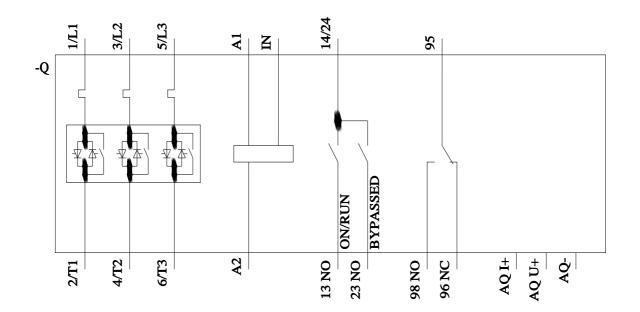
| control supply voltage at AC | |
|---|---|
| • at 50 Hz | 110 250 V |
| • at 60 Hz | 110 250 V |
| relative negative tolerance of the control supply voltage at AC at 50 Hz | -15 % |
| relative positive tolerance of the control supply voltage at AC at 50 Hz | 10 % |
| relative negative tolerance of the control supply voltage at AC at 60 Hz | -15 % |
| relative positive tolerance of the control supply voltage at AC at 60 Hz | 10 % |
| control supply voltage frequency | 50 60 Hz |
| relative negative tolerance of the control supply voltage frequency | -10 % |
| relative positive tolerance of the control supply voltage frequency | 10 % |
| control supply current in standby mode rated value | 30 mA |
| holding current in bypass operation rated value | 75 mA |
| inrush current by closing the bypass contacts maximum | 2.5 A |
| inrush current peak at application of control supply voltage maximum | 12.2 A |
| duration of inrush current peak at application of control supply voltage | 2.2 ms |
| design of the overvoltage protection | Varistor |
| design of short-circuit protection for control circuit | 4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply |
| Inputs/ Outputs | |
| number of digital inputs | 1 |
| number of digital outputs | 3 |
| not parameterizable | 2 |
| digital output version | 2 normally-open contacts (NO) / 1 changeover contact (CO) |
| | 1 |
| | |
| number of analog outputs switching capacity current of the relay outputs | |
| switching capacity current of the relay outputs | 3 A |
| switching capacity current of the relay outputsat AC-15 at 250 V rated value | 3 A 1 A |
| switching capacity current of the relay outputs at AC-15 at 250 V rated value at DC-13 at 24 V rated value | 3 A 1 A |
| switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions | 1 A |
| switching capacity current of the relay outputs at AC-15 at 250 V rated value at DC-13 at 24 V rated value | |
| switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions | 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical |
| switching capacity current of the relay outputs at AC-15 at 250 V rated value at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position | 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface |
| switching capacity current of the relay outputs at AC-15 at 250 V rated value at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method | 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing |
| switching capacity current of the relay outputs at AC-15 at 250 V rated value at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height | 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm |
| switching capacity current of the relay outputs at AC-15 at 250 V rated value at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width | 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 185 mm |
| switching capacity current of the relay outputs at AC-15 at 250 V rated value at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width depth | 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 185 mm |
| switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting | 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 185 mm 203 mm |
| switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards | 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 185 mm 203 mm 10 mm |
| switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards | 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm |
| switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • at the side | 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm |
| switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • at the side weight without packaging | 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm |
| switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • at the side | 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm |
| switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • at the side weight without packaging | 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm |
| switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • at the side weight without packaging Connections/ Terminals | 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm |
| switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • at the side weight without packaging Connections/ Terminals type of electrical connection • for control circuit | 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 5.2 kg box terminal screw-type terminals |
| switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • at the side weight without packaging Connections/ Terminals type of electrical connection • for main current circuit | 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 5.2 kg box terminal |
| switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • at the side weight without packaging Connections/ Terminals type of electrical connection • for control circuit width of connection bar maximum type of connectable conductor cross-sections | 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 10 mm 0 mm 100 mm 75 mm 5 mm 5.2 kg box terminal screw-type terminals 25 mm |
| switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • at the side weight without packaging Connections/ Terminals type of electrical connection • for control circuit • for control circuit | 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 5.2 kg box terminal screw-type terminals |
| switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side weight without packaging Connections/ Terminals type of electrical connection • for main current circuit • for control circuit width of connection bar maximum type of connectable conductor cross-sections • for main contacts for box terminal using the front | 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 10 mm 0 mm 100 mm 75 mm 5 mm 5.2 kg box terminal screw-type terminals 25 mm |
| switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • at the side weight without packaging Connections/ Terminals type of electrical connection • for control circuit width of connection bar maximum type of connectable conductor cross-sections • for main contacts for box terminal using the front clamping point solid • for main contacts for box terminal using the front clamping point solid • for main contacts for box terminal using the front clamping point solid | 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 5.2 kg box terminal screw-type terminals 25 mm 1x (2.5 16 mm²) |
| switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side weight without packaging Connections/ Terminals type of electrical connection • for control circuit width of connection bar maximum type of connectable conductor cross-sections • for main contacts for box terminal using the front clamping point solid • for main contacts for box terminal using the front clamping point finely stranded with core end processing • for main contacts for box terminal using the front clamping point finely stranded with core end processing | 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 0 mm 10 mm 0 mm 5 mm 5.2 kg box terminal screw-type terminals 25 mm 1x (2.5 16 mm ²) 1x (2.5 50 mm ²) |

| the back clamping point | | | |
|---|---|--|--|
| for main contacts for box terminal using both clamping points solid | 2x (2.5 16 mm²) | | |
| for main contacts for box terminal using both clamping points finely stranded with core end processing | 2x (2.5 35 mm²) | | |
| for main contacts for box terminal using both clamping points stranded | 2x (6 16 mm²), 2x (10 50 mm²) | | |
| for main contacts for box terminal using the back clamping point finely stranded with core end processing | 1x (2.5 50 mm²) | | |
| for main contacts for box terminal using the back clamping point stranded | 1x (10 70 mm²) | | |
| type of connectable conductor cross-sections | | | |
| for control circuit solid | 1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²) | | |
| for control circuit finely stranded with core end processing | 1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²) | | |
| for AWG cables for control circuit solid | 1x (20 12), 2x (20 14) | | |
| wire length | | | |
| 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 | 4.5 6 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 | 40 53 lbf·in | | |
| for auxiliary and control contacts with screw-type | 7 10.3 lbf-in | | |
| terminals | 7 10.3 lot 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: 3RV2742, max. 70 A or 3VA51, max. 90 A; lq = 5 kA | | |
| — usable for High Faults at 460/480 V according to UL | Siemens type: 3VA51, max. 60 A; lq max = 65 kA | | |
| — usable for Standard Faults at 460/480 V at inside- delta circuit according to UL | Siemens type: 3VA51, max. 90 A; Iq = 5 kA | | |
| — usable for High Faults at 460/480 V at inside-delta circuit according to UL | Siemens type: 3VA51, max. 60 A; Iq max = 65 kA | | |
| — usable for Standard Faults at 575/600 V according to UL | Siemens type: 3RV2742, max. 70 A or 3VA51, max. 90 A; Iq = 5 kA | | |
| — usable for Standard Faults at 575/600 V at inside- delta circuit according to UL | Siemens type: 3VA51, max. 90 A; Iq = 5 kA | | |
| of the fuse | | | |
| — usable for Standard Faults up to 575/600 V according to UL | Type: Class RK5 / K5, max. 175 A; lq = 5 kA | | |
| — usable for High Faults up to 575/600 V according to UL | Type: Class J / L, max. 175 A; lq = 100 kA | | |
| — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL | Type: Class RK5 / K5, max. 175 A; lq = 5 kA | | |

| — usable for l | High Faults at inside-del | ta circuit up to | Type | : Class J / L, max. 175 A; | lg = 100 kA | |
|--|--|---|--------------------|---------------------------------|-----------------------------|---------------------------|
| 575/600 V ac | | | | , , | | |
| operating power [hp] | for 3-phase motors | | | | | |
| • at 200/208 V at \$ | 50 °C rated value | | 10 hp |) | | |
| • at 220/230 V at \$ | 50 °C rated value | | 10 hp |) | | |
| • at 460/480 V at \$ | 50 °C rated value | | 30 hp |) | | |
| • at 200/208 V at i | nside-delta circuit at 50 | °C rated value | 20 hp |) | | |
| • at 220/230 V at i | nside-delta circuit at 50 | °C rated value | 25 hp |) | | |
| • at 460/480 V at i | nside-delta circuit at 50 | °C rated value | 50 hp |) | | |
| Ū. | liary contacts accordin | ig to UL | R300 | -B300 | | |
| Safety related data | | | | | | |
| • | the front according to | | IP00; | IP20 with cover | | |
| | he front according to I | EC 60529 | | -safe, for vertical contact | | |
| electromagnetic com | patibility | | in acc | cordance with IEC 60947- | 4-2 | |
| Certificates/ approvals | | _ | _ | | | _ |
| General Product App | roval | | | | | EMC |
| | | Confirmatio | <u>nc</u> | (UL) | EHC | RCM |
| Declaration of Confo | rmity | Test Certificate | tes | Marine / Shipping | | |
| UK CA | CE EG-Konf. | <u>Type Test Cer</u> ates/Test Rep | | ABS | B UREAU VERITAS | Lloyds Register urs |
| Marine / Shipping | other | | | | | |
| PRS | <u>Confirmation</u> | | | | | |
| Further information | | | | | | |
| | to exit the Russian ma | | | | | |
| Siemens is working o Please contact your loc EAC relevant market (o Information on the pa https://support.industry | other than the sanctioned ckaging .siemens.com/cs/ww/en/ | Irrent EAC certifica e status of validity of d EAEU member sta /view/109813875 | ates. f the EA | C certification if you intend | t to import or offer to sup | ply these products to an |
| https://www.siemens.co | | , Brochures,…) | | | | |
| | ordering system) mens.com/mall/en/en/Ca | atalog/product?mlfb | <u>=3RW5</u> | <u>224-1AC14</u> | | |
| Cax online generator | | Vordor/dofoult activ | volona | on 8 mlfb=2D\\/5004_44004 | 4 | |
| Service&Support (Ma | nuals, Certificates, Cha | aracteristics, FAQs | s,) | en&mlfb=3RW5224-1AC1 | <u>+</u> | |
| Image database (proc | | sion drawings, 3D | models | , device circuit diagram | s, EPLAN macros,) | |
| Characteristic: Trippi https://support.industry Characteristic: Install | | Let-through curren /ps/3RW5224-1AC1 | nt 14/char | | | |
| Simulation Tool for S | oft Starters (STS) | | <u>ch&mlfb</u> | <u>=3RW5224-1AC14&objec</u> | :ttype=14&gridview=view | <u>1</u> |
| https://support.industry | .siemens.com/cs/ww/en/ | <u>/view/101494917</u> | | | | |
| https://support.industry | .siemens.com/cs/ww/en/ | <u>/view/101494917</u> | | | | |







1/14/2023 🖸

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Siemens: 3RW52241AC14