SIEMENS

product brand name

Data sheet 3RW5243-2TC14

SIRIUS



SIRIUS soft starter 200-480 V 210 A, 110-250 V AC spring-type terminals Thermistor input

| product category | Hybrid switching devices |
|---|--|
| product designation | Soft starter |
| product type designation | 3RW52 |
| manufacturer's article number | |
| of standard HMI module usable | 3RW5980-0HS00 |
| of high feature HMI module usable | 3RW5980-0HF00 |
| of communication module PROFINET standard usable | 3RW5980-0CS00 |
| of communication module PROFIBUS usable | 3RW5980-0CP00 |
| of communication module Modbus TCP usable | 3RW5980-0CT00 |
| of communication module Modbus RTU usable | 3RW5980-0CR00 |
| of communication module Ethernet/IP | 3RW5980-0CE00 |
| of circuit breaker usable at 400 V | 3VA2325-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10 |
| of circuit breaker usable at 500 V | 3VA2325-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10 |
| • of circuit breaker usable at 400 V at inside-delta circuit | 3VA2440-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10 |
| • of circuit breaker usable at 500 V at inside-delta circuit | 3VA2440-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10 |
| of the gG fuse usable up to 690 V | 2x3NA3354-6; Type of coordination 1, Iq = 65 kA |
| • of the gG fuse usable at inside-delta circuit up to 500 V | 2x3NA3354-6; Type of coordination 1, Iq = 65 kA |
| of full range R fuse link for semiconductor protection usable up to 690 V | 3NE1230-2; Type of coordination 2, Iq = 65 kA |
| of back-up R fuse link for semiconductor protection usable up to 690 V | 3NE3333; Type of coordination 2, Iq = 65 kA |
| eneral technical data | |
| starting voltage [%] | 30 100 % |
| stopping voltage [%] | 50 %; non-adjustable |
| start-up ramp time of soft starter | 0 20 s |
| current limiting value [%] adjustable | 130 700 % |
| certificate of suitability | |
| CE marking | Yes |
| UL approval | Yes |
| CSA approval | Yes |
| product component | |
| HMI-High Feature | No |
| • is supported HMI-Standard | Yes |
| • is supported HMI-High Feature | Yes |
| product feature integrated bypass contact system | Yes |
| number of controlled phases | 3 |
| trip class | CLASS 10A (default) / 10E / 20E; acc. to IEC 60947-4-2 |
| buffering time in the event of power failure | |
| · | |
| for main current circuit | 100 ms |

| insulation voltage rated value | 600 V |
|--|---|
| degree of pollution | 3, acc. to IEC 60947-4-2 |
| impulse voltage rated value | 5, acc. to fee 60947-4-2 |
| | 1 600 V |
| blocking voltage of the thyristor maximum | 1 600 V |
| service factor | 1 6 kV |
| surge voltage resistance rated value | 0 KV |
| maximum permissible voltage for protective separation | 600 V |
| between main and auxiliary circuit 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 |
| 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 | Van |
| • ramp-up (soft starting) | Yes |
| • ramp-down (soft stop) | Yes |
| Soft Torque | Yes |
| adjustable current limitation | Yes |
| • pump ramp down | Yes |
| intrinsic device protection | Yes |
| motor overload protection | Yes; Full motor protection (thermistor motor protection and electronic motor overload protection) |
| evaluation of thermistor motor protection | Yes; Type A PTC or Klixon / Thermoclick |
| • inside-delta circuit | Yes |
| auto-RESET | Yes |
| manual RESET | Yes |
| • remote reset | Yes; By turning off the control supply voltage |
| communication function | Yes |
| operating measured value display | Yes; Only in conjunction with special accessories |
| error logbook | Yes; Only in conjunction with special accessories |
| via software parameterizable | No |
| via software configurable | Yes |
| PROFlenergy | Yes; in connection with the PROFINET Standard communication module |
| firmware update | Yes |
| removable terminal for control circuit | Yes |
| torque control | No |
| analog output | No |
| Power Electronics | |
| operational current | |
| at 40 °C rated value | 210 A |
| at 50 °C rated value | 186 A |
| at 60 °C rated value | 170 A |
| operational current at inside-delta circuit | |
| • at 40 °C rated value | 364 A |
| at 50 °C rated value | 322 A |
| at 60 °C rated value | 294 A |
| operating voltage | |
| • rated value | 200 480 V |
| at inside-delta circuit rated value | 200 480 V |
| relative negative tolerance of the operating voltage | -15 % |
| relative positive tolerance of the operating voltage | 10 % |
| relative negative tolerance of the operating voltage at inside-delta circuit | -15 % |
| relative positive tolerance of the operating voltage at inside-delta circuit | 10 % |
| operating power for 3-phase motors | |
| at 230 V at 40 °C rated value | 55 kW |
| at 230 V at inside-delta circuit at 40 °C rated value | 110 kW |
| at 400 V at 40 °C rated value | 110 kW |
| at 400 V at inside-delta circuit at 40 °C rated value | 200 kW |
| Operating frequency 1 rated value | 50 Hz |
| Operating frequency 2 rated value | 60 Hz |

| elative positive tolerance of the operating frequency | 10 % _ 10 % |
|---|--|
| elative positive tolerance of the operating frequency | 10 /0 |
| djustable motor current | 00 A |
| at rotary coding switch on switch position 1 | 90 A |
| at rotary coding switch on switch position 2 | 98 A |
| at rotary coding switch on switch position 3 | 106 A |
| at rotary coding switch on switch position 4 | 114 A |
| at rotary coding switch on switch position 5 | 122 A |
| at rotary coding switch on switch position 6 | 130 A |
| at rotary coding switch on switch position 7 | 138 A |
| at rotary coding switch on switch position 8 | 146 A |
| at rotary coding switch on switch position 9 | 154 A |
| at rotary coding switch on switch position 10 | 162 A |
| at rotary coding switch on switch position 11 | 170 A |
| at rotary coding switch on switch position 12 | 178 A |
| at rotary coding switch on switch position 13 | 186 A |
| at rotary coding switch on switch position 14 | 194 A |
| at rotary coding switch on switch position 15 | 202 A |
| at rotary coding switch on switch position 16 | 210 A |
| • minimum | 90 A |
| djustable motor current | |
| for inside-delta circuit at rotary coding switch on switch position 1 | 156 A |
| for inside-delta circuit at rotary coding switch on switch position 2 | 170 A |
| for inside-delta circuit at rotary coding switch on switch position 3 | 184 A |
| for inside-delta circuit at rotary coding switch on switch position 4 | 197 A |
| for inside-delta circuit at rotary coding switch on switch position 5 | 211 A |
| for inside-delta circuit at rotary coding switch on switch position 6 | 225 A |
| for inside-delta circuit at rotary coding switch on switch position 7 | 239 A |
| for inside-delta circuit at rotary coding switch on switch position 8 | 253 A |
| for inside-delta circuit at rotary coding switch on switch position 9 for inside-delta circuit at rotary coding switch on switch | 267 A 281 A |
| position 10 • for inside-delta circuit at rotary coding switch on switch | 294 A |
| position 11 • for inside-delta circuit at rotary coding switch on switch | 308 A |
| position 12 • for inside-delta circuit at rotary coding switch on switch | 322 A |
| position 13 • for inside-delta circuit at rotary coding switch on switch | 336 A |
| position 14 • for inside-delta circuit at rotary coding switch on switch | 350 A |
| position 15for inside-delta circuit at rotary coding switch on switch | 364 A |
| position 16 | |
| at inside-delta circuit minimum | 156 A |
| ninimum load [%] | 15 %; Relative to smallest settable le |
| ower loss [W] for rated value of the current at AC | |
| • at 40 °C after startup | 75 W |
| • at 50 °C after startup | 68 W |
| at 60 °C after startup | 63 W |
| ower loss [W] at AC at current limitation 350 % | |
| • at 40 °C during startup | 3 562 W |
| • at 50 °C during startup | 2 979 W |
| • at 60 °C during startup | 2 617 W |
| ntrol circuit/ Control | |

| 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 | 100 mA |
| inrush current by closing the bypass contacts maximum | 2.2 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) |
| | 0 |
| number of analog outputs | U |
| 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 |
| at DC-13 at 24 V rated value Installation/ mounting/ dimensions | |
| • at DC-13 at 24 V rated value | with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back |
| at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method | with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing |
| at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position | with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back |
| at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method | with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing |
| at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height | with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm |
| at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width | with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm |
| at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width depth | with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm |
| 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 | with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm |
| 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 | with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm |
| 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 | with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm |
| 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 | with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm |
| 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 | with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm |
| 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 | with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm 100 mm 100 mm 75 mm 5 mm |
| 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 downwards at the side weight without packaging | with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm 100 mm 100 mm 75 mm 5 mm |
| 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 | with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm 100 mm 100 mm 75 mm 5 mm |
| 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 | with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm 100 mm 5 mm 100 mm 75 mm 5 mm 9.9 kg |
| 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 upwards downwards at the side weight without packaging Connections/ Terminals type of electrical connection for main current circuit | with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm 100 mm 100 mm 55 mm 55 mm 9.9 kg |
| 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 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 | with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm 100 mm 5 mm 100 mm 75 mm 5 mm 9.9 kg |
| 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 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 wire length for thermistor connection | with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm 100 mm 5 mm 100 mm 75 mm 5 mm 9.9 kg |
| 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 wire length for thermistor connection with conductor cross-section = 0.5 mm² maximum | with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 5 mm 9.9 kg busbar connection spring-loaded terminals 45 mm |
| 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 wire length for thermistor connection with conductor cross-section = 0.5 mm² maximum with conductor cross-section = 1.5 mm² maximum | with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 9.9 kg busbar connection spring-loaded terminals 45 mm 50 m 150 m |
| 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 wire length for thermistor connection with conductor cross-section = 0.5 mm² maximum with conductor cross-section = 2.5 mm² maximum with conductor cross-section = 2.5 mm² maximum | with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 5 mm 9.9 kg busbar connection spring-loaded terminals 45 mm |
| 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 | with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 9.9 kg busbar connection spring-loaded terminals 45 mm 50 m 150 m 250 m |
| 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 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 wire length for thermistor connection with conductor cross-section = 0.5 mm² maximum with conductor cross-section = 2.5 mm² maximum with conductor cross-section = 2.5 mm² maximum fupe of connectable conductor cross-sections for DIN cable lug for main contacts stranded | with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 9.9 kg busbar connection spring-loaded terminals 45 mm 50 m 150 m 250 m |
| 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 wire length for thermistor connection with conductor cross-section = 0.5 mm² maximum with conductor cross-section = 2.5 mm² maximum with conductor cross-section = 2.5 mm² maximum with conductor cross-section = 2.5 mm² maximum fupe of connectable conductor cross-sections for DIN cable lug for main contacts finely stranded for DIN cable lug for main contacts finely stranded | with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 9.9 kg busbar connection spring-loaded terminals 45 mm 50 m 150 m 250 m |
| 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 | with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 9.9 kg busbar connection spring-loaded terminals 45 mm 50 m 150 m 250 m |

| • for control circuit finely stranded with core end processing • for AWG cables for control circuit solid • for AWG cables for control circuit solid • for AWG cables for control circuit finely stranded with core end processing wire length • between soft starter and motor maximum • at the digital inputs at AC maximum • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals tightening torque [lbf-in] • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage and transport • during operation according to IEC 60721 3K6 (no ice formation, only occasional condensation), 3C3 (no salt resand 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 into the devices), 3M6 | |
|--|--------------|
| • for AWG cables for control circuit finely stranded with core end processing wire length • between soft starter and motor maximum • at the digital inputs at AC maximum • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals tightening torque [lbf-in] • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals tightening torque [lbf-in] • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals Ambient conditions installation altitude at height above sea level maximum • during operation • during storage and transport • during operation according to IEC 60721 3K6 (no ice formation, only occasional condensation), 3C3 (no salt read must not get into the devices), 3M6 | |
| wire length • between soft starter and motor maximum • at the digital inputs at AC maximum 100 m tightening torque • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals tightening torque [lbf-in] • for main contacts with screw-type terminals tightening torque [lbf-in] • for auxiliary and control contacts with screw-type terminals **Tormain contacts with screw-type terminals **Tormain contacts with screw-type terminals **Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage and transport • during operation according to IEC 60721 3K6 (no ice formation, only occasional condensation), 3C3 (no salt response), 3M6 | |
| wire length • between soft starter and motor maximum • at the digital inputs at AC maximum 100 m tightening torque • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals tightening torque [lbf-in] • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxili | |
| between soft starter and motor maximum at the digital inputs at AC maximum tightening torque of or main contacts with screw-type terminals of or auxiliary and control contacts with screw-type terminals tightening torque [lbf-in] of or main contacts with screw-type terminals of or auxiliary and control contacts with screw-type terminals of or auxiliary and control contacts with screw-type terminals of or auxiliary and control contacts with screw-type terminals Ambient conditions installation altitude at height above sea level maximum ambient temperature oduring operation during storage and transport oduring storage and transport auxiliary and control contacts with screw-type terminals 5 000 m; Derating as of 1000 m, see catalog -25 +60 °C; Please observe derating at temperatures of 40 °C or -40 +80 °C environmental category oduring operation according to IEC 60721 3K6 (no ice formation, only occasional condensation), 3C3 (no salt regard) (sand must not get into the devices), 3M6 | |
| at the digital inputs at AC maximum tightening torque of or main contacts with screw-type terminals of or auxiliary and control contacts with screw-type terminals tightening torque [lbf-in] of or main contacts with screw-type terminals of or auxiliary and control contacts with screw-type terminals of or auxiliary and control contacts with screw-type terminals Ambient conditions installation altitude at height above sea level maximum of during operation of during storage and transport of during operation according to IEC 60721 3K6 (no ice formation, only occasional condensation), 3C3 (no salt response), 3M6 | |
| tightening torque • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals tightening torque [lbf-in] • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage and transport • during operation according to IEC 60721 3K6 (no ice formation, only occasional condensation), 3C3 (no salt read must not get into the devices), 3M6 | |
| for main contacts with screw-type terminals for auxiliary and control contacts with screw-type terminals tightening torque [lbf-in] for main contacts with screw-type terminals for auxiliary and control contacts with screw-type terminals for auxiliary and control contacts with screw-type terminals Ambient conditions installation altitude at height above sea level maximum during operation during storage and transport during operation according to IEC 60721 3K6 (no ice formation, only occasional condensation), 3C3 (no salt read must not get into the devices), 3M6 | |
| for auxiliary and control contacts with screw-type terminals tightening torque [lbf-in] | |
| tightening torque [lbf-in] • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage and transport • during operation according to IEC 60721 3K6 (no ice formation, only occasional condensation), 3C3 (no salt response), 3M6 | |
| for main contacts with screw-type terminals for auxiliary and control contacts with screw-type terminals Ambient conditions installation altitude at height above sea level maximum ambient temperature during operation during storage and transport e during operation according to IEC 60721 3K6 (no ice formation, only occasional condensation), 3C3 (no salt respective), 3M6 | |
| for auxiliary and control contacts with screw-type terminals Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage and transport • during operation according to IEC 60721 • Some according to IEC 60721 • Some according to IEC 60721 • C: Please observe derating at temperatures of 40 °C or 40 +80 °C • Some according to IEC 60721 | |
| for auxiliary and control contacts with screw-type terminals Ambient conditions installation altitude at height above sea level maximum ambient temperature during operation during storage and transport during operation according to IEC 60721 3K6 (no ice formation, only occasional condensation), 3C3 (no salt response), 3M6 7 10.3 lbf-in 8 during as of 1000 m, see catalog -25 +60 °C; Please observe derating at temperatures of 40 °C or -40 +80 °C 8 environmental category 9 during operation according to IEC 60721 3 K6 (no ice formation, only occasional condensation), 3C3 (no salt response), 3M6 | |
| terminals Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage and transport environmental category • during operation according to IEC 60721 3K6 (no ice formation, only occasional condensation), 3C3 (no salt response to the devices), 3M6 | |
| installation altitude at height above sea level maximum ambient temperature • during operation • during storage and transport environmental category • during operation according to IEC 60721 3K6 (no ice formation, only occasional condensation), 3C3 (no salt response) (sand must not get into the devices), 3M6 | |
| ambient temperature during operation during storage and transport +80 °C environmental category during operation according to IEC 60721 3K6 (no ice formation, only occasional condensation), 3C3 (no salt respondence), 3M6 | |
| during operation during storage and transport environmental category during operation according to IEC 60721 3K6 (no ice formation, only occasional condensation), 3C3 (no salt respondence), 3M6 | |
| ◆ 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 response to the devices), 3M6 | |
| ◆ 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 response to the devices), 3M6 | above |
| environmental category • during operation according to IEC 60721 3K6 (no ice formation, only occasional condensation), 3C3 (no salt respectively), 3M6 | |
| during operation according to IEC 60721 3K6 (no ice formation, only occasional condensation), 3C3 (no salt respectively), 3K6 (no ice formation), 3C3 (no salt respectively), 3C3 (no sa | |
| (sand must not get into the devices), 3M6 | mist), 3S2 |
| during storage according to IEC 60721 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand response) | |
| | nust not get |
| inside the devices), 1M4 | |
| • during transport according to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) | |
| EMC emitted interference acc. to IEC 60947-4-2: Class A | |
| Communication/ Protocol | |
| communication module is supported | |
| PROFINET standard Yes | |
| • EtherNet/IP Yes | |
| Modbus RTU Yes | |
| Modbus TCP Yes | |
| • PROFIBUS Yes | |
| UL/CSA ratings | |
| manufacturer's article number | |
| • of circuit breaker | |
| — usable for Standard Faults at 460/480 V according to UL Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 10 k/s | A |
| — usable for High Faults at 460/480 V according to UL Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = | 65 kA |
| — usable for Standard Faults at 460/480 V at insidedelta circuit according to UL Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 10 k/ | A |
| — usable for High Faults at 460/480 V at inside-delta Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = circuit according to UL | 65 kA |
| — usable for Standard Faults at 575/600 V according to UL Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 10 k/s | A |
| — usable for Standard Faults at 575/600 V at insidedelta circuit according to UL Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 10 k/g | A |
| • of the fuse | |
| — usable for Standard Faults up to 575/600 V Type: Class J / L, max. 700 A; Iq = 10 kA according to UL | |
| — usable for High Faults up to 575/600 V according to UL Type: Class J / L, max. 700 A; Iq = 100 kA | |
| — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL | |
| — usable for High Faults at inside-delta circuit up to 575/600 V according to UL Type: Class J / L, max. 700 A; Iq = 100 kA | |
| operating power [hp] for 3-phase motors | |
| • at 200/208 V at 50 °C rated value 60 hp | |
| • at 220/230 V at 50 °C rated value 60 hp | |
| • at 460/480 V at 50 °C rated value 150 hp | |
| • at 200/208 V at inside-delta circuit at 50 °C rated value 100 hp | |
| | |
| • at 220/230 V at inside-delta circuit at 50 °C rated value 125 hp | |
| | |

| Safety related data | |
|---|---|
| protection class IP on the front according to IEC 60529 | IP00; IP20 with cover |
| touch protection on the front according to IEC 60529 | finger-safe, for vertical contact from the front with cover |
| electromagnetic compatibility | in accordance with IEC 60947-4-2 |
| Certificates/ approvals | |

Certificates/ approvals

General Product Approval

EMC





Confirmation







Declaration of Conformity

Test Certificates

Marine / Shipping





Type Test Certificates/Test Report







Marine / Shipping

other



Confirmation

Further information

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

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

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

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

Information on the packaging

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

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

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW5243-2TC14

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5243-2TC14

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5243-2TC14

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5243-2TC14&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RW5243-2TC14/char

Characteristic: Installation altitude

 $\underline{\text{http://www.automation.siemens.com/bilddb/index.aspx?view=Search\&mlfb=3RW5243-2TC14\&objecttype=14\&gridview=view1}$

Simulation Tool for Soft Starters (STS)

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







