SIEMENS

3RW5074-6AB05 **Data sheet**



SIRIUS soft starter 200-600 V 315 A, 24 V AC/DC Screw terminals Analog output

| product brand name | SIRIUS |
|---|---|
| product category | Hybrid switching devices |
| product designation | Soft starter |
| product type designation | 3RW50 |
| manufacturer's article number | |
| of standard HMI module usable | 3RW5980-0HS01 |
| of high feature HMI module usable | 3RW5980-0HF00 |
| of communication module PROFINET standard usable | 3RW5980-0CS00 |
| of communication module PROFIBUS usable | 3RW5980-0CP00 |
| of communication module Modbus TCP usable | 3RW5980-0CT00 |
| of communication module Modbus RTU usable | 3RW5980-0CR00 |
| of communication module Ethernet/IP | 3RW5980-0CE00 |
| of circuit breaker usable at 400 V | 3VA2440-7MN32-0AA0; Type of assignment 1, Iq = 65 kA |
| of circuit breaker usable at 500 V | 3VA2440-7MN32-0AA0; Type of assignment 1, Iq = 65 kA |
| of the gG fuse usable up to 690 V | 2x3NA3365-6; Type of coordination 1, Iq = 65 kA |
| of full range R fuse link for semiconductor protection usable up to 690 V | 3NE1 333-2; Type of coordination 2, Iq = 65 kA |
| of back-up R fuse link for semiconductor protection usable up to 690 V | 3NE3 335; Type of coordination 2, Iq = 65 kA |
| of line contactor usable up to 480 V | <u>3RT1075</u> |
| of line contactor usable up to 690 V | <u>3RT1075</u> |
| General technical data | |
| starting voltage [%] | 30 100 % |
| stopping voltage [%] | 50 %; non-adjustable |
| start-up ramp time of soft starter | 0 20 s |
| ramp-down time of soft starter | 0 20 s |
| current limiting value [%] adjustable | 130 700 % |
| accuracy class according to IEC 61557-12 | 5 % |
| 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 | 2 |
| trip class | CLASS 10A / 10E (preset) / 20E; acc. to IEC 60947-4-2 |

| buffering time in the event of power failure | 400 |
|--|---|
| for main current circuit | 100 ms |
| for control circuit | 100 ms |
| insulation voltage rated value | 600 V |
| degree of pollution | 3, acc. to IEC 60947-4-2 |
| impulse voltage rated value | 6 kV |
| blocking voltage of the thyristor maximum | 1 600 V |
| service factor | 1 |
| surge voltage resistance rated value | 6 kV |
| maximum permissible voltage for safe isolation | |
| 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) | 09/23/2019 |
| 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 |
| 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 |
| voltage ramp | Yes |
| torque control | No |
| analog output | Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) |
| Power Electronics | |
| operational current | |
| at 40 °C rated value | 315 A |
| at 50 °C rated value | 279 A |
| at 60 °C rated value | 255 A |
| operating voltage | |
| rated value | 200 600 V |
| relative negative tolerance of the operating voltage | -15 % |
| relative positive tolerance of the operating voltage | 10 % |
| operating power for 3-phase motors | 00.114 |
| at 230 V at 40 °C rated value | 90 kW |
| • at 400 V at 40 °C rated value | 160 kW |
| at 500 V at 40 °C rated value | 200 kW |
| Operating frequency 1 rated value | 50 Hz |
| Operating frequency 2 rated value | 60 Hz |
| relative negative tolerance of the operating frequency | -10 % |
| relative positive tolerance of the operating frequency | 10 % |
| adjustable motor current | |
| at rotary coding switch on switch position 1 | 135 A |
| at rotary coding switch on switch position 2 | 147 A |
| at rotary coding switch on switch position 3 | 159 A |

| at rotary coding switch on switch position 4 | 171 A |
|--|--|
| at rotary coding switch on switch position 5 | 183 A |
| at rotary coding switch on switch position 6 | 195 A |
| at rotary coding switch on switch position 7 | 207 A |
| at rotary coding switch on switch position 8 | 219 A |
| at rotary coding switch on switch position 9 | 231 A |
| at rotary coding switch on switch position 10 | 243 A |
| at rotary coding switch on switch position 11 | 255 A |
| | |
| at rotary coding switch on switch position 12 | 267 A |
| at rotary coding switch on switch position 13 | 279 A |
| at rotary coding switch on switch position 14 | 291 A |
| at rotary coding switch on switch position 15 | 303 A |
| at rotary coding switch on switch position 16 | 315 A |
| • minimum | 135 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 | 36 W |
| at 50 °C after startup | 29 W |
| at 60 °C after startup | 24 W |
| power loss [W] at AC at current limitation 350 % | |
| • at 40 °C during startup | 3 368 W |
| | 2 805 W |
| at 50 °C during startup at 60 °C during startup | 2 455 W |
| • at 60 °C during startup | |
| type of the motor protection | Electronic, tripping in the event of thermal overload of the motor |
| Control circuit/ Control | |
| type of voltage of the control supply voltage | AC/DC |
| control supply voltage at AC | |
| at 50 Hz rated value | 24 V |
| at 60 Hz rated value | 24 V |
| relative negative tolerance of the control supply | -20 % |
| voltage at AC at 50 Hz | |
| relative positive tolerance of the control supply voltage at AC at 50 Hz | 20 % |
| relative negative tolerance of the control supply voltage at AC at 60 Hz | -20 % |
| relative positive tolerance of the control supply voltage at AC at 60 Hz | 20 % |
| control supply voltage frequency | 50 60 Hz |
| relative negative tolerance of the control supply | -10 % |
| voltage frequency | |
| relative positive tolerance of the control supply voltage frequency | 10 % |
| control supply voltage | |
| at DC rated value | 24 V |
| | -20 % |
| relative negative tolerance of the control supply voltage at DC | |
| relative positive tolerance of the control supply | 20 % |
| voltage at DC | 160 mA |
| control supply current in standby mode rated value | 160 mA |
| holding current in bypass operation rated value | 490 mA |
| locked-rotor current at close of bypass contact maximum | 7.6 A |
| inrush current peak at application of control supply voltage maximum | 3.3 A |
| duration of inrush current peak at application of control supply voltage | 12.1 ms |
| design of the overvoltage protection | Varistor |
| design of short-circuit protection for control circuit | 4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply |
| Inputs/ Outputs | |
| number of digital inputs | 1 |
| number of digital outputs | 3 |
| <u> </u> | |

| not parameterizable | 2 |
|---|--|
| digital output version | 2 normally-open contacts (NO) / 1 changeover contact (CO) |
| number of analog outputs | 1 |
| switching capacity current of the relay outputs | |
| • at AC-15 at 250 V rated value | 3 A |
| at DC-13 at 24 V rated value | 1 A |
| Installation/ mounting/ dimensions | 1 A |
| - | with wantied requisiting a surface 1/00° retatable, with wantied requisiting |
| mounting position | with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back |
| fastening method | screw fixing |
| height | 230 mm |
| width | 160 mm |
| depth | 282 mm |
| required spacing with side-by-side mounting | 202 111111 |
| • forwards | 10 mm |
| | 0 mm |
| backwards | |
| • upwards | 100 mm |
| • downwards | 75 mm |
| at the side | _ 5 mm |
| weight without packaging | 7.3 kg |
| Connections/ Terminals | |
| type of electrical connection | |
| for main current circuit | busbar connection |
| • for control circuit | screw-type terminals |
| width of connection bar maximum | 35 mm; with connection cover 3RT1966-4EA1 maximum length 45 mm |
| type of connectable conductor cross-sections | <u> </u> |
| for main contacts for box terminal using the front clamping point solid | 95 300 mm² |
| for main contacts for box terminal using the front clamping point finely stranded with core end processing | 70 240 mm² |
| for main contacts for box terminal using the front clamping point finely stranded without core end processing | 70 240 mm² |
| for main contacts for box terminal using the front clamping point stranded | 95 300 mm² |
| at AWG cables for main contacts for box terminal using the front clamping point | 3/0 600 kcmil |
| for main contacts for box terminal using the back clamping point solid | 120 240 mm² |
| at AWG cables for main contacts for box terminal using the back clamping point | 250 500 kcmil |
| for main contacts for box terminal using both clamping points solid | min. 2x 70 mm², max. 2x 240 mm² |
| for main contacts for box terminal using both clamping points finely stranded with core end processing | min. 2x 50 mm², max. 2x 185 mm² |
| for main contacts for box terminal using both clamping points finely stranded without core end processing | min. 2x 50 mm², max. 2x 185 mm² |
| for main contacts for box terminal using both clamping points stranded | min. 2x 70 mm², max. 2x 240 mm² |
| for main contacts for box terminal using the back clamping point finely stranded with core end processing | 120 185 mm² |
| for main contacts for box terminal using the back clamping point finely stranded without core end processing | 120 185 mm² |
| for main contacts for box terminal using the back clamping point stranded | 120 240 mm² |
| type of connectable conductor cross-sections | |
| at AWG cables for main current circuit solid | 2/0 500 kcmil |
| for DIN cable lug for main contacts stranded | 50 240 mm² |
| for DIN cable lug for main contacts finely stranded | 70 240 mm² |
| type of connectable conductor cross-sections | |

| • for camford circuit solid • for solid starer and motor maximum • at the digital inputs of starer and motor maximum • at the digital inputs of starer and motor maximum • at the digital inputs of starer and motor maximum • at the digital inputs of starer and motor maximum • at the digital inputs of starer and motor maximum • for main contacts with screw-type terminals • for main c | | |
|--|--|--|
| ## of AVMC cables for control circuit solid ## of the very solid stater and motor maximum ## at the digital inputs at AC maximum ## to maximary and control contacts with screw-type terminals ## 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 ## 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 ## for forcit and the control contacts with screw-type terminals ## for forcit and the control contacts with screw-type terminals ## for forcit and the control contacts with screw-type terminals ## for forcit and the control contact with screw-type terminals ## for forcit and the control contact with screw-type terminals ## for forcit and control contact with screw-type terminals ## for forcit and control contact with screw-type terminals ## for forcit and control contact with screw-type terminals ## for forcit and control contact with screw-type terminals ## for forcit and control contact with screw-type terminals ## for forcit products and the control and control contact from the front with cover ## forcit and control contact from the fornt with cover ## forcit and control contact from the fornt with cover ## forcit and control contact from the fornt with cover ## forcit and control | for control circuit solid | 1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²) |
| a AWG cables for control circuit solid in the digital injust at AC maximum a the digital injust at AC maximum fightering proque of or main contacts with screw-type terminals of or auxiliary and control contacts with screw-type terminals for auxiliary and control contacts with screw-type terminals of or 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 according to IEC 60721 during storage a | for control circuit finely stranded with core end | 1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²) |
| where neght starter and motor maximum • at the digital inputs at AC maximum 1000 m | | |
| between soft starter and motor maximum | at AWG cables for control circuit solid | 1x (20 12), 2x (20 14) |
| ** at the digital inputs at AC maximum tightening torque ** 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 ** 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 ** 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 ** 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 contact with screw-type terminals ** for auxiliary and control contact for the for auxiliary and control contact from the front with cover ** for auxiliary and control contact from the front with cover ** for auxiliary and control contact from the front with cover ** for auxiliary and control contact from the front with cover ** for auxiliary and control contact from the front with | wire length | |
| Uphtering torque • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for main contacts with screw-type terminals • for main contacts with screw-type terminals • for main contacts with screw-type terminals • for main contacts with screw-type terminals • for main contacts with screw-type terminals • for main contacts with screw-type terminals • for main contacts with screw-type terminals • for main contacts with screw-type terminals • for main contacts with screw-type terminals • for main contacts with screw-type terminals • for main contacts with screw-type terminals • for main contacts with screw-type terminals • for main contacts with screw-type terminals • for main contacts with screw-type terminals • for main contacts with screw-type terminals • for main contacts with screw-type terminals • for main contacts with screw-type terminals • for main contacts with screw-type terminals • for main contacts with screw-type terminals • for main contacts with screw-type terminals • for main contacts with screw-type terminals • for main contacts with screw-type terminals • for main contacts with screw-type terminals • for main contacts with screw-type terminals • for main contacts with screw-type terminals • for main contacts with screw-type terminals • during peration • during storage and transport • during peration • during storage according to IEC 60721 • during s | between soft starter and motor maximum | 800 m |
| • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals tightening torque (Ibf-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 • 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 • for auxiliary and control contact with screw-type • for auxiliary and control contact with screw-type • for auxiliary and control on the for auxiliary and control on the for auxiliary • for maxiliary and control on the front according to IEC • for auxiliary and control on the front according to IEC • for auxiliary and control on the front according to IEC • for auxiliary and control on the front according to IEC • for auxiliary and | at the digital inputs at AC maximum | 1 000 m |
| • for auxiliary and control contacts with screw-type terminals • for main contact with screw-type terminals • for main | tightening torque | |
| tightening torque (Difrin) • 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 • 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 • for ouring storage according to IEC 60721 • during storage according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 • PROFINET standard • PROFINES • PROFINE | for main contacts with screw-type terminals | 14 24 N·m |
| tightening torque (lbf-in) of or main contacts with screw-type terminals of or auxiliary and control contacts with screw-type terminals of a varillary and control contacts with screw-type terminals installation altitude at height above sea level maximum ambient conditions installation altitude at height above sea level maximum ambient temperature oduring operation oduring storage and transport oduring operation according to IEC 60721 oduring storage according to IEC 60721 oduring transport according to IEC 60721 oduring storage according to IEC 60529 ATEX overticate of autitability oduring storage according to IEC 61508 oduring stor | | 0.8 1.2 N·m |
| • for main contacts with screw-type terminals • for suciliary 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 storage and transport • during storage and coording to IEC 60721 • during storage according to IEC 60721 • during strange according to IEC 60721 • during strange according to IEC 60721 • during transport according to IEC 60721 • PROFIBUS UCICSA ratings manufacturer's article number • of circuit breaker — usable for High Faults up to 575:600 V according to IEC • of the fuse — usable for High Faults up to 575:600 V according to IEC • at 600480 v at 50 °C rated value • at 375:600 V at 50 °C rated value • at 460480 V at 50 °C rated value • at 375:600 V at 50 °C rated value • at 375:600 V at 50 °C rated value • at 375:600 V at 50 °C rated value • at 375:600 V at 50 °C rated value • at 375:600 V at 50 °C rated value • at 375:600 V at 50 °C rated value • at 375:600 V at 50 °C rated value • at 375:600 V at 50 °C rated value • at 375:600 V at 50 °C rated value • at 375:600 V at 50 °C rated value • at 375:600 V at 50 °C rated value • at 375:600 V at 50 °C rated value • at 375:600 V at 50 °C rated value • at 375:600 V at 50 °C rated value • at 375:600 V at 50 °C rated value • at 375:600 V at 50 °C rated value • at 375:600 V at 50 °C rated va | | |
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| Ambient conditions installation attitude at height above sea level maximum ambient temperature e during porage and transport e during storage and transport during operation according to IEC 60721 eduring storage according to IEC 60721 during transport according to IEC 60721 EMC emitted interference communication/ Protocol communication module is supported PROFIBUS Yes Library Protocol PROFIBUS Yes Library Cristed value a coording to UL operating power (ph] for 3-phase motors at 200/208 V at 50 "C rated value at 200/208 V at 50 "C rated v | | |
| Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage and transport • during storage and transport • during storage and transport • during storage according to IEC 60721 • during storage according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 EMC emitted interference communication Protocol communication module is supported • PROFINET standard • PROFINET standard • PROFISUS UL/CSA ratings manufacturer's article number • of circuit breaker — usable for high Faults at 460/480 V according to U. • of the fuse — usable for high Faults up to 575/600 V according to U. • or standard Faults up to 575/600 V according to U. • at 200/280 V at 50 °C rated value • at 200/280 V at 50 °C rated value • at 460/480 V at 50 °C rated value • at 460/480 V at 50 °C rated value • at 575/600 V at 50 °C rated va | | 7 10.3 lbt·in |
| installation altitude at height above sea level maximum ambient temperature • during poration • during poration • during storage and transport • during storage and transport • during storage and reaccording to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 • during transport according to IEC 60721 • during transport according to IEC 60721 EMC emitted interference Communication/ Protocol communication/ Protocol communication module is supported • PROFIBUS • PROFIBUS • PROFIBUS UL/CSA ratings manufacturer's article number • of circuit breaker — usable for stigh Faults at 460/480 V according to UL — usable for High Faults up to 575/600 V according to UL operating power (Ip) for 3-phase motors • at 200/280 V at 50 "C rated value • at 200/280 V at 50 "C rated value • at 200/280 V at 50 "C rated value • at 260/280 V at 50 "C rated value • at 260/280 V at 50 "C rated value • at 460/480 V at 50 "C rated value • at 260/280 V at 50 | | |
| ambient temperature • during operation • during storage and transport • during storage and transport • during storage according to IEC 60721 • during storage according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 • during transport according to IEC 60721 • during transport according to IEC 60721 EMC emitted interference Communication/ Protocol communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus RTU • Modbus RTU • PROFIBUS UL/CSA ratings manufacturer's article number • of circuit breaker — usable for High Faults at 460/480 V according to UL • of the fuse — usable for High Faults up to 575/600 V according to UL • of the fuse — usable or Standard Faults up to 575/600 V according to UL • at 200/208 V at 50 "C rated value • at 220/230 V at 50 "C rated value • at 480/480 V at 50 "C rated value • at 480/480 V at 50 "C rated value • at 575/600 V at 50 "C rated value • at 575/600 V at 50 "C rated value • at 575/600 V at 50 "C rated value • at 575/600 V at 50 "C rated value • at 575/600 V at 50 "C rated value • at 575/600 V at 50 "C rated value • at 575/600 V at 50 "C rated value • at 575/600 V at 50 "C rated value • at 575/600 V at 50 "C rated value • at 575/600 V at 50 "C rated value • at 575/600 V at 50 "C rated value • at 575/600 V at 50 "C rated value • at 575/600 V at 50 "C rated value • at 575/600 V at 50 "C rated value • at 575/600 V at 50 "C rated value • at 575/600 V at 50 "C rated value • at 575/600 V at 50 "C rated value • at 675/600 V at 50 "C rated value • at 675/600 V at 50 "C rated value • at 675/600 V at 50 "C rated value • at 675/600 V at 50 "C rated value • at 675/600 V at 50 "C rated value • at 675/600 V at 50 "C rated value • at 675/600 V at 50 "C rated value • at 675/600 V at 50 "C rated value • at 675/600 V at 50 "C rated value • at 675/600 V at 50 "C rated value • at 675/600 V at 50 "C rated value • at 675/600 V at 50 "C rated value • at 675/600 V at 5 | | 5 000 m; dorating as of 1000 m, see Manual |
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| e during storage and transport environmental category • during operation according to IEC 60721 • during storage according to IEC 60721 • during storage according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 • during transport according to IEC 60721 • during transport according to IEC 60721 • Communication retoreronce EMC emitted interference Communication Protocot communication module is supported • PROFINET standard • PROFINET standard • PROFINET standard • PROFIBUS Wes • Modbus RTU • Modbus RTU • Modbus RTU • Modbus RTU • PROFIBUS UL/CSA ratings manufacturer's article number • of circuit breaker — usable for High Faults up to 575/600 V according to UL • of the fuse — usable for Standard Faults up to 575/600 V according to UL operating power (high Faults up to 575/600 V according to UL operating power (high for 3-phase motors • at 200/202 V at 50 °C rated value • at 457/5600 V at 50 °C rated value • at 460/480 V at 50 °C rated value • at 575/500 V at 50 °C rated value • at 575/500 V at 50 °C rated value • at 575/500 V at 50 °C rated value • at 575/500 V at 50 °C rated value • at 675/500 V at 50 °C rated value • at 675/500 V at 50 °C rated value • at 575/500 V at 50 °C rated value • at 575/500 V at 50 °C rated value • at 575/500 V at 50 °C rated value • at 575/500 V at 50 °C rated value • at 575/500 V at 50 °C rated value • at 575/500 V at 50 °C rated value • at 575/500 V at 50 °C rated value • at 575/500 V at 50 °C rated value • at 575/500 V at 50 °C rated value • at 575/500 V at 50 °C rated value • at 575/500 V at 50 °C rated value • at 575/500 V at 50 °C rated value • at 575/500 V at 50 °C rated value • at 575/500 V at 50 °C rated value • at 575/500 V at 50 °C rated value • at 575/500 V at 50 °C rated value • at 575/500 V at 50 °C rated value • at 675/500 V at 50 °C rated value • at 675/500 V at 50 °C rated value • at 675/500 V at 50 °C rated value • at 675/500 V at 50 °C rated value • at 675/500 V at 50 °C rated value • at 675/500 V at 50 °C rated | • | 25 ±60 °C: Plages observe denoting at temperatures of 40 °C an |
| e during storage and transport environmental category during operation according to IEC 60721 adding storage according to IEC 60721 during storage according to IEC 60721 during transport according to IEC 60721 eduring transport according to IEC 60721 Alfa (on ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get inside devices), 3M6 ### Alfa (on ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get inside the devices), 3M6 ### Alfa (on ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get inside the devices), 3M6 ### Alfa (on ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get inside the devices), 3M6 ### Alfa (in ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get inside the devices), 3M6 ### Alfa (in ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get inside devices), 3M6 ### Alfa (in ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get inside devices), 3M6 ### Alfa (in ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get inside devices), 3M6 ### Alfa (in ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get inside devices), 3M6 ### Alfa (in ice formation, only occasional condensation), 1C2 (no salt mist), 3S2 (sand must not get inside the devices), 3M6 ### Alfa (in ice formation) ### Alfa (in ice formation) ### Alfa (in ice formation) ### Alfa (in ice formation) ### Alfa (in ice formation) ### Alfa (in ice formation) ### Alfa (in ice formation) ### Alfa (in ice formation) ### Alfa (in ice formation) ### Alfa (in ice formation) ### Alfa (in ice formation) ### Alfa (in ice formation) ### Alfa (in ice formation) ### Alfa (in ice formation) ### Alfa (in ice formation) ### Alfa (in ice formation) ### Alfa (in ice formation) ### Alfa (in ice formation) ### Alfa (in ice formation) ### Al | • during operation | |
| environmental category • during operation according to IEC 60721 • during storage according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 • during transport according to IEC 60721 EMC emitted interference communication module is supported • PROFINET standard • EtherNett/IP • Modbus RTU • Modbus RTU • PROFIBUS TUCISA ratings manufacturer's article number • of circuit breaker — usable for High Faults at 460/480 V according to UL — usable for High Faults up to 575/600 V according to UL — usable for Figh Faults up to 575/600 V according to UL — usable for Figh Faults up to 575/600 V according to UL — usable for High Faults up to 575/600 V according to UL — usable for High Faults up to 575/600 V according to UL — usable for High Faults up to 575/600 V according to UL — usable for High Faults up to 575/600 V according to UL — usable for High Faults up to 575/600 V according to UL — usable for High Faults up to 575/600 V according to UL — usable for High Faults up to 575/600 V according to UL poperating power (Inp) for 3-phase motors • at 200/208 V at 50 °C rated value • at 460/480 V at 50 °C rated value • at 460/480 V at 50 °C rated value • at 575/600 V at 50 °C ra | during storage and transport | |
| during operation according to IEC 60721 during storage according to IEC 60721 during storage according to IEC 60721 during transport according to IEC 60721 during transport according to IEC 60721 EMC emitted interference Communication Protocol communication module is supported PROFINET standard PROFINET standard PROFINET standard PROFIBUS Hodbus RTU PROFIBUS TUL CSA ratius manufacturer's article number of circuit breaker — usable for High Faults at 460/480 V according to UL — usable for Standard Faults up to 575/600 V according to UL — usable for John Faults up to 575/600 V according to UL operating power [hp] for 3-phase motors at 200/208 V at 50 °C rated value at 460/480 V at 50 °C rated value at 575/600 V at 50 °C rated value at 575/600 V at 50 °C rated value at 60/57/600 V at 50 °C | | |
| ### during storage according to IEC 60721 ### (6 only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get into the devices), 3M6 ### during transport according to IEC 60721 ### (2 c2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) ### acc. to IEC 60947-4-2: Class A ### Communication Protocol | 5 . | 3K6 (no ice formation, only occasional condensation), 3C3 (no salt |
| oldring transport according to IEC 60721 EMC emitted interference communication/ Protocol communication module is supported PROFINET standard PROFINET standard PROFINET standard PROFINED Modbus TCP PROFIBUS Ves PROFIBUS Windows TCP Prosuble for High Faults at 460/480 V according to UL of the fuse — usable for Standard Faults up to 575/600 V according to UL — usable for High Faults up to 575/600 V according to UL Properating power (hp] for 3-phase motors at 200/208 V at 50 °C rated value at 200/208 V at 50 °C rated value at 460/480 V at 50 °C rated value at 460/480 V at 50 °C rated value at 470/480 V at 50 °C rated | and a farmer and a | |
| e during transport according to IEC 60721 EMC emitted interference acc. to IEC 60947-4-2: Class A Communication/Protocol communication module is supported • PROFINET standard • PROFINET standard • PROFINET standard • PROFISUS • Modbus RTU • Modbus TCP • Modbus TCP • PROFIBUS Tyes • PROFIBUS Tyes **PROFIBUS | during storage according to IEC 60721 | |
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| Communication Protocol communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS **Ves • Of circuit breaker — usable for High Faults at 460/480 V according to UL • of the fuse — usable for Standard Faults up to 575/600 V according to UL — usable for High Faults up to 575/600 V according to UL — usable for High Faults up to 575/600 V according to UL — usable for High Faults up to 575/600 V according to UL — usable for High Faults up to 575/600 V according to UL • of the fuse — usable for Standard Faults up to 575/600 V according to UL — usable for Standard Faults up to 575/600 V according to UL • at 200/208 V at 50 °C rated value • at 220/230 V at 50 °C rated value • at 460/480 V at 50 °C rated value • at 675/600 V at 50 °C rated value • at 67 | during transport according to IEC 60721 | 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) |
| communication module is supported PROFINET standard EtherNet/IP Modobus RTU Modobus RTU Modobus TCP PROFIBUS Ves PROFIBUS Ves Ves PROFIBUS Ves Ves Ves Ves Ves Ves Ves Ves Ves Ve | EMC emitted interference | acc. to IEC 60947-4-2: Class A |
| PROFINET standard EtherNet/IP Modbus RTU Modbus TCP PROFIBUS Wes PROFIBUS Wes PROFIBUS Wes Ves UL/CSA ratings manufacturer's article number of circuit breaker — usable for High Faults at 460/480 V according to UL of the fuse — usable for Standard Faults up to 575/600 V according to UL — usable for High Faults up to 575/600 V according to UL — usable for High Faults up to 575/600 V according to UL — usable for High Faults up to 575/600 V according to UL Operating power [hp] for 3-phase motors otal 200/208 V at 50 °C rated value at 220/230 V at 50 °C rated value otal 460/480 V at 50 °C rated value at 575/600 V at 50 °C rated value otal 4576/600 V at 50 °C rated value at 575/600 V at 50 °C rated value at 575/600 V at 50 °C rated value by the form the front according to IEC 60529 touch protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 touch protection on the front according to IEC 60529 touch protection on the front according to IEC 60529 touch protection on the front according to IEC 60529 touch protection on the front according to IEC 60529 touch protection on the front according to IEC 60529 touch protection on the front according to IEC 60529 touch protection on the front according to IEC 60529 touch protection on the front according to IEC 60529 touch protection on the front according to IEC 60529 touch protection on the front according to IEC 60529 touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front with cover 60529 touch protection on the front according to IEC 61508 election to IEC 61508 PEDay with low demand rate according to IEC 61508 PEDay with low demand rate according to IEC 61508 | Communication/ Protocol | |
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| Modbus RTU Modbus TCP PROFIBUS Ves PROFIBUS Ves Ves Ves Ves Ves Ves Ves Ve | PROFINET standard | Yes |
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| - usable for High Faults at 460/480 V according to UL • of the fuse - usable for Standard Faults up to 575/600 V according to UL - usable for High Faults up to 575/600 V according to UL - usable for High Faults up to 575/600 V according to UL Operating power [hp] for 3-phase motors • at 200/208 V at 50 °C rated value • at 460/480 V at 50 °C rated value • at 460/480 V at 50 °C rated value • at 4575/600 V at 50 °C rated value • at 575/600 V at 50 °C rated value • at 575/600 V at 50 °C rated value • at 60/480 V at 50 °C rated value • at 575/600 V at 50 °C rated value • at 575/600 V at 50 °C rated value • at Foreign for the front according to IEC 60529 touch protection on the front according to IEC 60529 touch protection on the front according to IEC 60529 touch gratian for the front according to IEC 60529 ATEX • IECEx hardware fault tolerance according to IEC 61508 relating to ATEX PFDavg with low demand rate according to IEC 61508 PFDavg with low demand rate according to IEC 61508 O.09 | manufacturer's article number | |
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| touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front with cover ATEX certificate of suitability • ATEX • IECEX hardware fault tolerance according to IEC 61508 relating to ATEX PFDavg with low demand rate according to IEC 61508 0.09 | | IPOO: IP20 with cover |
| touch protection on the front according to IEC 60529 ATEX certificate of suitability | | ii oo, ii 20 wilii covei |
| certificate of suitability • ATEX • IECEX hardware fault tolerance according to IEC 61508 relating to ATEX PFDavg with low demand rate according to IEC 61508 0.09 | touch protection on the front according to IEC 60529 | finger-safe, for vertical contact from the front with cover |
| certificate of suitability • ATEX • IECEX PFDavg with low demand rate according to IEC 61508 • ATEX Yes Yes 0 0 0 0 0 0 0 0 0 0 0 0 0 | ATEX | |
| ATEX IECEx Yes hardware fault tolerance according to IEC 61508 relating to ATEX PFDavg with low demand rate according to IEC 61508 0.09 | | |
| IECEX Yes hardware fault tolerance according to IEC 61508 relating to ATEX PFDavg with low demand rate according to IEC 61508 0.09 | | Yes |
| hardware fault tolerance according to IEC 61508 0 relating to ATEX PFDavg with low demand rate according to IEC 61508 0.09 | | |
| relating to ATEX PFDavg with low demand rate according to IEC 61508 0.09 | | |
| | • | |
| relating to ATEX | | 0.09 |
| | relating to ATEX | |

| PFHD with high demand rate according to EN 62061 relating to ATEX | 9E-6 1/h |
|--|----------|
| Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX | SIL1 |
| T1 value for proof test interval or service life according to IEC 61508 relating to ATEX | 3 y |

Certificates/ approvals

General Product Approval

For use in hazardous locations





Confirmation







For use in hazardous locations Declaration of Conformity

Test Certificates

Marine / Shipping





Type Test Certificates/Test Report







other

Confirmation

Further information

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=3RW5074-6AB05

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5074-6AB05

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5074-6AB05

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

 $\underline{\text{http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5074-6AB05\&lang=en}}$

Characteristic: Tripping characteristics, I²t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RW5074-6AB05/char

Characteristic: Installation altitude

 $\underline{http://www.automation.siemens.com/bilddb/index.aspx?view=Search\&mlfb=3RW5074-6AB05\&objecttype=14\&gridview=view1}$

Simulation Tool for Soft Starters (STS)

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

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