SIEMENS

Data sheet

3RW5075-2AB15



SIRIUS soft starter 200-600 V 370 A, 110-250 V AC Spring-loaded terminals Analog output

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| 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 | <u>3RW5980-0HS01</u> |
| of high feature HMI module usable | <u>3RW5980-0HF00</u> |
| of communication module PROFINET standard usable | 3RW5980-0CS00 |
| 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 | 3RW5980-0CR00 |
| of communication module Ethernet/IP | <u>3RW5980-0CE00</u> |
| of circuit breaker usable at 400 V | 3VA2580-6HN32-0AA0; Type of assignment 1, lg = 65 kA |
| of circuit breaker usable at 500 V | 3VA2580-6HN32-0AA0; 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 | <u>3NE1 334-2: Type of coordination 2. $Iq = 65 kA$</u> |
| of back-up R fuse link for semiconductor protection usable up to 690 V | <u>3NE3 336: Type of coordination 2. Iq = 65 kA</u> |
| 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 % |
| 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 | |
| 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 protective separation | |
| 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 | |
| analog output Power Electronics | Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) |
| | |
| • at 40 °C rated value | 370 A |
| • at 50 °C rated value | 328 A |
| • at 60 °C rated value | 300 A |
| operating voltage | 500 A |
| 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 | |
| • at 230 V at 40 °C rated value | 110 kW |
| • at 400 V at 40 °C rated value | 200 kW |
| • at 500 V at 40 °C rated value | 250 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 | 160 A |
| at rotary coding switch on switch position 2 | 174 A |
| at rotary coding switch on switch position 3 | 188 A |
| at rotary coding switch on switch position 4 | 202 A |
| at rotary coding switch on switch position 5 | 216 A |
| at rotary coding switch on switch position 6 | 230 A |
| at rotary coding switch on switch position 7 | 244 A |
| at rotary coding switch on switch position 8 | 258 A |

| at rotary coding switch on switch position 9 | 272 A |
|-----------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| at rotary coding switch on switch position 10 | 286 A |
| at rotary coding switch on switch position 11 | 300 A |
| at rotary coding switch on switch position 12 | 314 A |
| at rotary coding switch on switch position 13 | 328 A |
| at rotary coding switch on switch position 14 | 342 A |
| at rotary coding switch on switch position 15 | 356 A |
| at rotary coding switch on switch position 16 | 370 A |
| • minimum | 160 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 | 3 726 W |
| • at 50 °C during startup | 3 124 W |
| • at 60 °C during startup | 2 748 W |
| 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 |
| 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 | -15 % |
| AC at 50 Hz | |
| 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 | -10 % |
| frequency relative positive tolerance of the control supply voltage | 10 % |
| frequency | |
| control supply current in standby mode rated value | 30 mA |
| holding current in bypass operation rated value | 105 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) |
| 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 | 1A |
| Installation/ mounting/ dimensions | |
| mounting position | with vertical mounting surface +/-90° rotatable, with vertical mounting surface |
| - UP | +/- 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 | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
| forwards | 10 mm |
| backwards | 0 mm |
| • upwards | 100 mm |
| downwards | 75 mm |
| at the side | 5 mm |
| weight without packaging | 7.3 kg |
| Connections/ Terminals | 1.0 Kg |
| type of electrical connection | |
| for main current circuit | busbar connection |
| for control circuit | spring-loaded terminals |
| width of connection bar maximum | 35 mm; with connection cover 3RT1966-4EA1 maximum length 45 mm |
| type of connectable conductor cross-sections | |
| 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 |
| for main contacts for box terminal using the back clamping point solid | 120 240 mm ² |
| for 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 for main contacts for box terminal using the back | 120 185 mm ² 120 185 mm ² |
| for main contacts for box terminal using the back for main contacts for box terminal using the back | 120 240 mm ² |
| clamping point stranded | |
| type of connectable conductor cross-sections | |
| for 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 control circuit solid | 2x (0.25 1.5 mm²) |
| for control circuit finely stranded with core end processing | 2x (0.25 1.5 mm²) |
| for AWG cables for control circuit solid | 2x (24 16) |
| for AWG cables for control circuit finely stranded with core end processing | 2x (24 16) |
| wire length | |
| between soft starter and motor maximum | 800 m |
| at the digital inputs at AC maximum | 1 000 m |
| tightening torque | |
| for main contacts with screw-type terminals | 14 24 N·m |
| for auxiliary and control contacts with screw-type terminals | 0.8 1.2 N·m |
| tightening torque [lbf·in] | |
| for main contacts with screw-type terminals | 124 210 lbf·in |
| for auxiliary and control contacts with screw-type terminals | 7 10.3 lbf·in |
| Ambient conditions | |
| installation altitude at height above sea level maximum | 5 000 m; derating as of 1000 m, see Manual |
| ambient temperature | |
| during operation | -25 +60 °C; Please observe derating at temperatures of 40 °C or above |
| during storage and transport | -40 +80 °C |

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| ENC on ECC 6047-4-2. Class A Dominantical closed Forded Communication module is supported PROPINET standard Provide the function module is supported Provide the function the function to the fu | during transport according to IEC 60721 | ·· | |
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| communication module is supported • PROFINET standard Proof File T standard Yes • Interview File Proof File • Modulus RTU Yes • Modulus RTU Yes • Modulus RTU Yes • Modulus RTU Yes • Modulus FOP Yes • Modulus RTU Yes • Modulus NTU Yes • Modulus RTU Yes • Modulus NTU • States • Modulus Valis O' Chied value 200 All to Chied value • Modulus RP on the front according to IEC 60529 Modulu RP protection class IP on the front according to IEC 61508 Prool IPO0. IP20 with cover modulus fault tolerance according to IEC 61508 Prool IPO0. IP20 with cover • Modulus fault tolerance according to IEC | Communication/ Protocol | | |
| • ROPERNET standard • ROPERNET standard • ROPERNET standard • ROPERNET • ROPE | | | |
| Etherhet/P Ves Ves | | Yes | |
| • Moduus RTU Yes • Moduus TCP Yes • Anome Yes Junce Annues Yes • Constraints Type: Class L, max. 1200 A; kj = 18 KA • usable for High Faulia up to 575/000 V according to Type: Class L, max. 1200 A; kj = 10 KA • usable for High Faulia up to 575/000 V according to Type: Class L, max. 1200 A; kj = 10 KA • usable for High Faulia up to 575/000 V according to Type: Class L, max. 1200 A; kj = 10 KA • usable for High Faulia up to 575/000 V according to Type: Class L, max. 1200 A; kj = 10 KA • usable for High Faulia up to 575/000 V according to Type: Class L, max. 1200 A; kj = 10 KA • usable for High Faulia up to 575/000 V according to Type: Class L, max. 1200 A; kj = 10 KA • usable for High Faulia up to 575/000 V according to Type: Class L, max. 1200 A; kj = 10 KA • usable for the fort according to EC 60529 Type: Class L, max. 1200 A; kj = 10 KA • usable for the fort according to EC 60529 Type: Class L, max. 1200 A; kj = 10 KA • Usable for the fort according to EC 60529 Type: Class L, max. 1200 A; kj = 10 KA • Usable for the fort according to EC 61508 relating to 0.9 • Usable for the fort according to EC 61508 relating to File 1 • Usable for the fort according to EC 6150 | | | |
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| ULCSA ratings • of the fuss - usable for Standard Faults up to 575/600 V - usable for Standard Faults up to 575/600 V operating power (hp) for 3-phase motors • 1220/203 V at 50 °C rated value • 125 hp • 126 hor hor fort according to IEC 60522 IP00. IP20 with cover touch protection on the front according to IEC 60523 IP00. IP20 with cover • ATEX | | | |
| manufacturer's article number | | | |
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| | — usable for Standard Faults up to 575/600 V | Type: Class L, max. 1200 A; lq = 18 kA | |
| operating power (hp) for 3-phase motors et 2200208 V at 50 °C rated value 100 hp the standard state is the state | — usable for High Faults up to 575/600 V according to | Type: Class L, max. 1200 A; lq = 100 kA | |
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| a d 575/600 V at 50 °C rated value 300 p Shore value d data protection class IP on the front according to IEC 60529 finger-safe, for vertical contact from the front with cover ATEX ATEX | | | |
| 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 Image-safe, for vertical contact from the front with cover ATEX Yes certificate of suitability - ATEX 'IECEx Yes ·UKEX Yes hardware fault tolerance according to IEC 61508 relating to 0 ATEX Yes PFDay with low demand rate according to IEC 61508 relating to 0.09 PFDay with low demand rate according to IEC 61508 relating to 0.09 PFDay with low demand rate according to IEC 61508 relating to 0.09 PFDay with low demand rate according to IEC 61508 relating to 0.109 VarIEX Yes 9E-6 1/h Safety Integrity Level (SIL) according to IEC 61508 relating to 0 Yes to ATEX Yes Safety Integrity Level (SIL) according to IEC 61508 relating to 3 a Centificates/ approvals For use in hazard-ous locations Centificates/ approvals For use in hazard-ous locations Centificates/ approvals Confirmation Centificates/ approvals For use in hazard-ous locations For use in hazardous locations Declaration of Conformity Yes Test Certificates Marine / Shipping Marine / Shippi | | • | |
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| Irther information | |
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| Siemens has decided to exit the Russian market (see here). | |
| nttps://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 th EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus). | ese products to an |
| nformation on the packaging | |
| https://support.industry.siemens.com/cs/ww/en/view/109813875 | |
| nformation- and Downloadcenter (Catalogs, Brochures,) | |
| https://www.siemens.com/ic10 | |
| ndustry Mall (Online ordering system) | |
| nttps://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW5075-2AB15 | |
| Cax online generator | |
| nttp://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5075-2AB15 | |
| Service&Support (Manuals, Certificates, Characteristics, FAQs,) | |
| https://support.industry.siemens.com/cs/ww/en/ps/3RW5075-2AB15 | |
| mage database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) | |
| http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5075-2AB15⟨=en | |
| Characteristic: Tripping characteristics, I ² t, Let-through current | |
| https://support.industry.siemens.com/cs/ww/en/ps/3RW5075-2AB15/char | |
| Characteristic: Installation altitude http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5075-2AB15&objecttype=14&gridview=view1 | |
| | |
| Simulation Tool for Soft Starters (STS) https://support.industry.siemens.com/cs/ww/en/view/101494917 | |
| Ittps://support.industry.sienens.com/cs/www.en/view/101434317 | |

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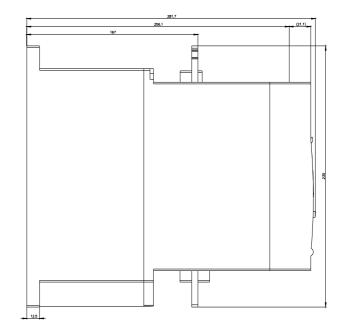
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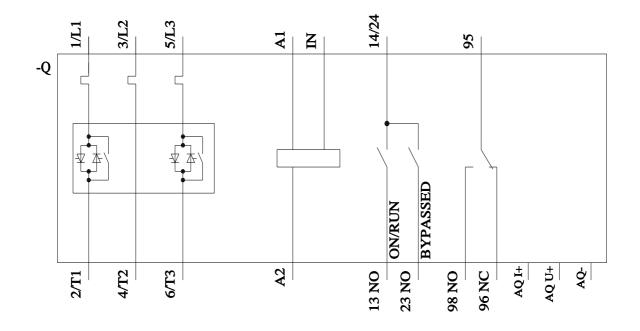
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