SIEMENS

Data sheet

3RW3047-1BB14



SIRIUS soft starter S3 106 A, 55 kW/400 V, 40 $^{\circ}\text{C}$ 200-480 V AC, 110-230 V AC/DC Screw terminals

| General technical data | | |
|---|----|--------------------------|
| product brand name | | SIRIUS |
| product designation | | Soft starter |
| product feature | | |
| integrated bypass contact system | | Yes |
| thyristors | | Yes |
| product function | | |
| intrinsic device protection | | No |
| motor overload protection | | No |
| evaluation of thermistor motor protection | | No |
| external reset | | No |
| adjustable current limitation | | No |
| • inside-delta circuit | | No |
| product component motor brake output | | No |
| insulation voltage rated value | V | 600 |
| degree of pollution | | 3, acc. to IEC 60947-4-2 |
| blocking voltage of the thyristor maximum | V | 1 600 |
| reference code according to EN 61346-2 | | Q |
| reference code according to DIN 40719 extended according to IEC 204-2 according to IEC 750 | | G |
| Power Electronics | | |
| operational current | | |
| at 40 °C rated value | А | 106 |
| • at 50 °C rated value | А | 98 |
| • at 60 °C rated value | А | 90 |
| yielded mechanical performance for 3-phase motors | | |
| • at 230 V | | |
| — at standard circuit at 40 °C rated value | kW | 30 |
| • at 400 V | | |
| - at standard circuit at 40 °C rated value | kW | 55 |
| yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value | hp | 30 |
| operating frequency rated value | Hz | 50 60 |
| relative negative tolerance of the operating frequency | % | -10 |
| relative positive tolerance of the operating frequency | % | 10 |
| operating voltage at standard circuit rated value | V | 200 480 |
| relative negative tolerance of the operating voltage at standard circuit | % | -15 |
| relative positive tolerance of the operating voltage at standard circuit | % | 10 |
| minimum load [%] | % | 10 |

| continuous operating current [% of le] at 40 °C | % | 115 |
|---|----|--|
| power loss [W] at operational current at 40 °C during | W | 21 |
| operation typical | | |
| Control circuit/ Control | | |
| type of voltage of the control supply voltage | | AC/DC |
| control supply voltage frequency 1 rated value | Hz | 50 |
| control supply voltage frequency 2 rated value | Hz | 60 |
| relative negative tolerance of the control supply voltage | % | -10 |
| frequency | | |
| relative positive tolerance of the control supply voltage | % | 10 |
| frequency | | |
| control supply voltage 1 at AC at 50 Hz | V | 110 230 |
| control supply voltage 1 at AC at 60 Hz | V | 110 230 |
| 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 1 at DC | V | 110 230 |
| relative negative tolerance of the control supply voltage at DC | % | -15 |
| relative positive tolerance of the control supply voltage at DC | % | 10 |
| display version for fault signal | | red |
| Mechanical data | | |
| size of engine control device | _ | S3 |
| | | 70 |
| width | mm | |
| height | mm | 170 |
| depth | mm | 190 |
| fastening method | _ | screw and snap-on mounting |
| mounting position | | With vertical mounting surface +/-10° rotatable, with vertical mounting surface +/- 10° tiltable to the front and back |
| required spacing with side-by-side mounting | | |
| • upwards | mm | 60 |
| • at the side | mm | 30 |
| downwards | mm | 40 |
| wire length maximum | m | 300 |
| number of poles for main current circuit | | 3 |
| | _ | 5 |
| Connections/ Terminals | _ | |
| type of electrical connection | | |
| for main current circuit | | screw-type terminals |
| for auxiliary and control circuit | | screw-type terminals |
| number of NC contacts for auxiliary contacts | | 0 |
| number of NO contacts for auxiliary contacts | | 1 |
| number of CO contacts for auxiliary contacts | | 0 |
| type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point | | |
| • solid | | 2x (2.5 16 mm²) |
| finely stranded with core end processing | | 2.5 35 mm ² |
| • stranded | | 4 70 mm ² |
| type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point | | |
| • solid | | 2x (2.5 16 mm²) |
| finely stranded with core end processing | | 2.5 50 mm ² |
| stranded with core end processing stranded | | 10 70 mm ² |
| type of connectable conductor cross-sections for main | | iv / v mm |
| contacts for box terminal using both clamping points | | 0(0.5 |
| • solid | | 2x (2.5 16 mm²) |
| | | |
| finely stranded with core end processing | | 2x (2.5 35 mm ²) |
| | | 2x (2.5 35 mm²) 2x (10 50 mm²) |

| EMV <u>KC</u> | Test Certificates Type Test Certific- ates/Test Report Spec | cial Test Certific- ate | other Miscellaneous | Confirmation | Railway Special Test Certific- ate | |
|--|--|----------------------------|------------------------|--|------------------------------------|--|
| EMV | Test Certificates | | other | | Railway | |
| | | | | | | |
| ccc | EG-Konf. | CH | UL | LIIL | RCM | |
| (\mathbf{x}) | CE | UK | (ŲL) | FAL | <u>ک</u> | |
| General Product Ap | oproval | | | | EMV | |
| pprovals Certificates | | | | | | |
| | xiliary contacts according to UL | _ | B300 / R300 | | | |
| | rd circuit at 50 °C rated value | hp | | | | |
| • at 460/480 V | rd airquit at E0 °C rated value | h ar | 75 | | | |
| | rd circuit at 50 °C rated value | hp | 30 | | | |
| • at 220/230 V | rd airquit at E0 °C rate duration | , | 20 | | | |
| • | performance [hp] for 3-phase AC | - motor | | | | |
| L/CSA ratings | | | | | | |
| | tial [CO2 eq] after end of life | kg | -4.48 | | | |
| 0 0. | tial [CO2 eq] during operation | kg | 140 | | | |
| 0. | tial [CO2 eq] during sales | kg | | | | |
| 0. | tial [CO2 eq] during manufacturing | g kg | 18.6 | | | |
| global warming poten | tial [CO2 eq] total | kg | 154 | | | |
| Environmental Produ | ct Declaration(EPD) | | Yes | | | |
| nvironmental footpr | int | | | | | |
| | the front according to IEC 60529 |) | finger-safe, for v | vertical contact from the | e front | |
| protection class IP of | on the front according to IEC 605 | 529 | IP20 | | | |
| derating temperatur | е | C° | | | | |
| during storage | | °C | | | | |
| during operation | on | °C | | | | |
| ambient temperatur | e | | | | | |
| <u> </u> | on according to IEC 60721 | | 3K6 (no formatio | 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 | | |
| during storage | according to IEC 60721 | | | 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 | | |
| | rt according to IEC 60721 | | | 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) | | |
| environmental categ | | | | | | |
| | at height above sea level | m | 5 000 | | | |
| mbient conditions | | | | | | |
| for auxiliary contract | ntacts | | 2x (20 14) | | | |
| for main contact | | | 2x (7 1/0) | | | |
| cables | | | | | | |
| | conductor cross-sections for A | WG | | | | |
| | with core end processing | | 2x (0.5 1.5 m | | | |
| solid | | | 2x (0.5 2.5 m | m²) | | |
| type of connectable contacts | conductor cross-sections for au | ixiliary | | | | |
| stranded | | | 2x (10 70 mm | 1 ²) | | |
| finely stranded | | | 2 x (10 50 mn | , | | |
| lug for main contact | | | o (10 | 2) | | |
| type of connectable | conductor cross-sections for DI | IN cable | | | | |
| using both clar | | | 2x (10 1/0) | | | |
| using the backusing the front | | | 10 2/0 10 2/0 | | | |

Environment



Simulation Tool for Soft Starters (STS)

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

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=3RW3047-1BB14

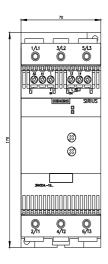
Cax online generator

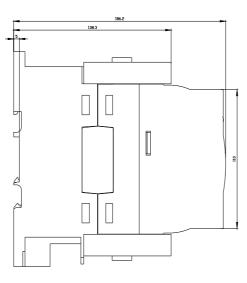
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW3047-1BB14

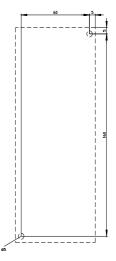
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

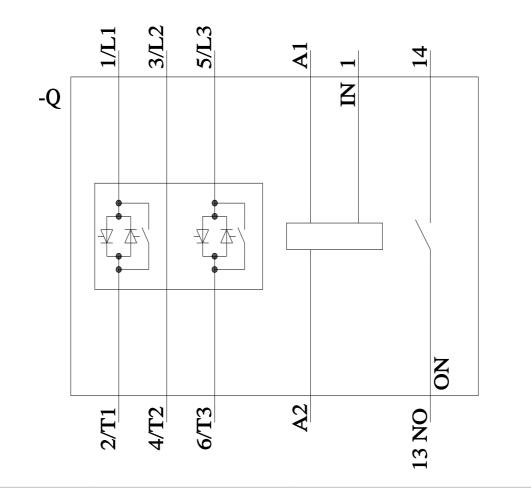
https://support.industry.siemens.com/cs/ww/en/ps/3RW3047-1BB14

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW3047-1BB14&lang=en









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