SIEMENS

Data sheet

3RW4047-2BB14



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

| General technical data | | |
|---|----|--------------------------|
| product brand name | | SIRIUS |
| product feature | | |
| integrated bypass contact system | | Yes |
| thyristors | | Yes |
| product function | | |
| intrinsic device protection | | Yes |
| motor overload protection | | Yes |
| evaluation of thermistor motor protection | | No |
| external reset | | Yes |
| adjustable current limitation | | Yes |
| • 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 |
| 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 | | |
| product designation | | Soft starter |
| 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 [%] | % | 20 |
| adjustable motor current for motor overload protection minimum rated value | А | 46 |

| continuous operating current [% of le] at 40 °C%115power loss [W] at operational current at 40 °C during operation typicalW21Control circuit/ Control%115type of voltage of the control supply voltageAC/DCcontrol supply voltage frequency 1 rated valueHz50control supply voltage frequency 2 rated valueHz60relative negative tolerance of the control supply voltage frequency%10relative positive tolerance of the control supply voltage frequency%10control supply voltage 1 at AC at 50 HzV110 230control supply voltage 1 at AC at 60 HzV110 230relative negative tolerance of the control supply voltage at AC at 50 Hz%10relative negative tolerance of the control supply voltage at AC at 50 Hz%10relative negative tolerance of the control supply voltage at AC at 50 Hz%10relative negative tolerance of the control supply voltage at AC at 60 Hz%10relative negative tolerance of the control supply voltage at AC at 60 Hz%10control supply voltage 1 at DCV110 230relative negative tolerance of the control supply voltage at AC at 60 Hz%10control supply voltage 1 at DCV110 230relative negative tolerance of the control supply voltage at AC at 60 Hz%10control supply voltage 1 at DCV110 230relative negative tolerance of the control supply voltage at DC%< | |
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| DC Image and the second seco | |
| | |
| DC | |
| display version for fault signal red | |
| Mechanical data | |
| size of engine control device S3 | |
| width mm 70 | |
| height mm 170 | |
| depth mm 190 | |
| fastening method screw and snap-on mounting | |
| mounting position With additional fan: With vertical munting su front and back Without additional fa sufficient additional fa surface +/-10° rotatable, with vertical munting su | Irface +/- 22.5° tiltable to the an: With vertical mounting |
| required spacing with side-by-side mounting | |
| • upwards mm 60 | |
| | |
| | |
| | |
| | |
| | |
| Connections/ Terminals | |
| type of electrical connection | |
| for main current circuit screw-type terminals | |
| for auxiliary and control circuit spring-loaded terminals | |
| number of NC contacts for auxiliary contacts 0 | |
| number of NO contacts for auxiliary contacts 2 | |
| number of CO contacts for auxiliary contacts 1 | |
| type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point | |
| • solid 2x (2.5 16 mm ²) | |
| • 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 mm ²) | |
| • finely stranded with core end processing 2.5 50 mm ² | |
| • stranded 10 70 mm ² | |
| type of connectable conductor cross-sections for main contacts for box terminal using both clamping points | |
| • solid 2x (2.5 16 mm ²) | |
| • finely stranded with core end processing 2x (2.5 35 mm ²) | |
| • stranded with cere and proceeding 2x (10 50 mm ²) | |

| type of connectable conductor cross-sections for AWG cables for main contacts for box terminal | | | | |
|--|----------|--|--|--|
| | | | | |
| Using the back clamping point | | 2x (10 1/0 |) | |
| using the back clamping point | | • | · | |
| using the front clamping point | | 2x (10 1/0 10 2/0 |) | |
| using both clamping points type of connectable conductor cross-sections for DIN cable | ρ | 10 2/0 | | |
| lug for main contacts | C | | | |
| finely stranded | | 2 x (10 50 | mm²) | |
| stranded | | 2x (10 70 | mm²) | |
| type of connectable conductor cross-sections for auxiliary | , | | | |
| contacts | | | | |
| • solid | | 2x (0.25 2 | | |
| finely stranded with core end processing | _ | 2x (0.25 1 | .5 mm²) | |
| type of connectable conductor cross-sections for AWG cables | | | | |
| for main contacts | | 2x (7 1/0) | | |
| for auxiliary contacts | | 2x (24 14) |) | |
| Ambient conditions | | , | | |
| installation altitude at height above sea level | m | 5 000 | | |
| environmental category | | | | |
| during transport according to IEC 60721 | | 2K2, 2C1, 2S | S1, 2M2 (max. fall height 0.3 | m) |
| during storage according to IEC 60721 | | | casional condensation), 1C2 | |
| | | | not get inside the devices), 1 | |
| during operation according to IEC 60721 | | | nation of ice, no condensation | |
| ambient temperature | | JOZ (Sand III | nust not get into the devices), | |
| during operation | °C | -25 +60 | | |
| during sporador | °C | | | |
| derating temperature | °C | | | |
| protection class IP on the front according to IEC 60529 | | IP20 | | |
| touch protection on the front according to IEC 60529 | | | or vertical contact from the fi | ont |
| UL/CSA ratings | | iniger eare, i | | ont |
| yielded mechanical performance [hp] for 3-phase AC moto | r | | | |
| • at 220/230 V | | | | |
| | | | | |
| — at standard circuit at 50 °C rated value | hp | 30 | | |
| — at standard circuit at 50 °C rated value at 460/480 V | hp | 30 | | |
| • at 460/480 V | | | | |
| • at 460/480 V — at standard circuit at 50 °C rated value | hp hp | 75 | | |
| at 460/480 V — at standard circuit at 50 °C rated value contact rating of auxiliary contacts according to UL | | | | |
| at 460/480 V — at standard circuit at 50 °C rated value contact rating of auxiliary contacts according to UL Approvals Certificates | | 75 | | |
| at 460/480 V — at standard circuit at 50 °C rated value contact rating of auxiliary contacts according to UL | | 75 | | |
| at 460/480 V — at standard circuit at 50 °C rated value contact rating of auxiliary contacts according to UL Approvals Certificates General Product Approval | hp | 9 75 B300 / R300 | Confirmation | 0 |
| at 460/480 V — at standard circuit at 50 °C rated value contact rating of auxiliary contacts according to UL Approvals Certificates General Product Approval | hp | 9 75 B300 / R300 | | س |
| at 460/480 V — at standard circuit at 50 °C rated value contact rating of auxiliary contacts according to UL Approvals Certificates General Product Approval | hp | 0 75 B300 / R300 | | ٩ |
| at 460/480 V — at standard circuit at 50 °C rated value contact rating of auxiliary contacts according to UL Approvals Certificates | hp | 9 75 B300 / R300 | | U L |
| at 460/480 V — at standard circuit at 50 °C rated value contact rating of auxiliary contacts according to UL Approvals Certificates General Product Approval | hp | 0 75 B300 / R300 | | U L |
| | hp | 0 75 B300 / R300 | Confirmation | U L |
| | hp | 0 75 B300 / R300 CE EG-Konf. | | UL |
| | hp | 75 B300 / R300 CCE EG-Konf. | Confirmation Test Certificates | Unc Test Certific- |
| | hp | 75 B300 / R300 CCE EG-Konf. | Confirmation | Type Test Certific- ates/Test Report |
| | hp | 75 B300 / R300 CCE EG-Konf. | Confirmation Confirmation Test Certificates Special Test Certific- | Type Test Certific- ates/Test Report |
| | hp | 75 B300 / R300 CCE EG-Konf. | Confirmation Confirmation Test Certificates Special Test Certific- | Experimental Control of Control |
| | hp | 75 B300 / R300 CCE EG-Konf. | Confirmation Confirmation Test Certificates Special Test Certific- | Type Test Certific- ates/Test Report |
| | hp | 75 B300 / R300 CCE EG-Konf. | Confirmation Confirmation Test Certificates Special Test Certific- | Type Test Certific- ates/Test Report |
| | hp | o 75 B300 / R300 EG-Konf. For use in hazard- ous locations | Confirmation Confirmation Test Certificates Special Test Certific- ate Railway | ates/Test Report |
| | hp | 75 B300 / R300 EG-Konf. | Confirmation Confirmation Test Certificates Special Test Certific- ate Railway Special Test Certific- | Type Test Certific- ates/Test Report Confirmation |
| | hp | o 75 B300 / R300 EG-Konf. For use in hazard- ous locations | Confirmation Confirmation Test Certificates Special Test Certific- ate Railway | ates/Test Report |
| | hp | o 75 B300 / R300 EG-Konf. For use in hazard- ous locations | Confirmation Confirmation Test Certificates Special Test Certific- ate Railway Special Test Certific- | ates/Test Report |
| at 460/480 V at standard circuit at 50 °C rated value Contact rating of auxiliary contacts according to UL Approvals Certificates General Product Approval General Product Approval EMV EMV EMV Marine / Shipping | hp | o 75 B300 / R300 EG-Konf. For use in hazard- ous locations | Confirmation Confirmation Test Certificates Special Test Certific- ate Railway Special Test Certific- | ates/Test Report |
| at 460/480 V at standard circuit at 50 °C rated value Contact rating of auxiliary contacts according to UL Approvals Certificates General Product Approval General Product Approval EMV EMV EMV Marine / Shipping | hp | o 75 B300 / R300 EG-Konf. For use in hazard- ous locations | Confirmation Confirmation Test Certificates Special Test Certific- ate Railway Special Test Certific- | ates/Test Report |



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=3RW4047-2BB14

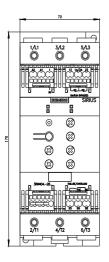
Cax online generator

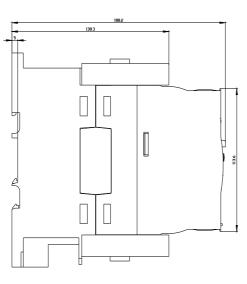
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4047-2BB14

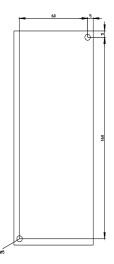
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

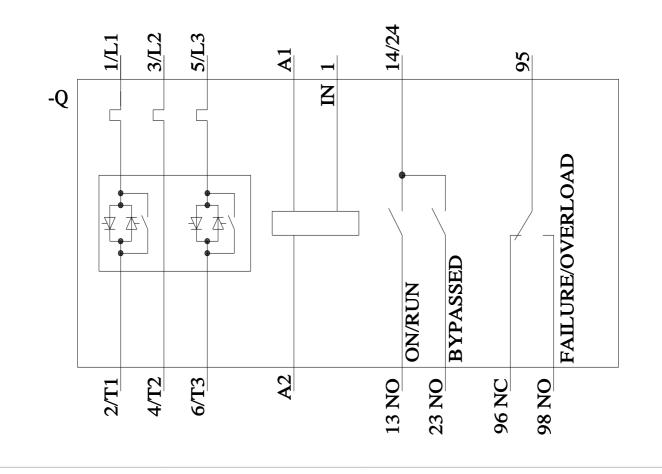
https://support.industry.siemens.com/cs/ww/en/ps/3RW4047-2BB14

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4047-2BB14&lang=en









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