SIEMENS

Data sheet

3RW4038-1BB14



SIRIUS soft starter S2 72 A, 37 kW/400 V, 40 °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 | | 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 | | |
| 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 | 72 | | |
| • at 50 °C rated value | А | 62 | | |
| • at 60 °C rated value | А | 60 | | |
| yielded mechanical performance for 3-phase motors | | | | |
| • at 230 V | | | | |
| - at standard circuit at 40 °C rated value | kW | 22 | | |
| • at 400 V | | | | |
| — at standard circuit at 40 °C rated value | kW | 37 | | |
| yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value | hp | 20 | | |
| 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 | | |
| | | | | |

| | _ | | | | |
|--|----|---|--|--|--|
| adjustable motor current for motor overload protection minimum rated value | A | 35 | | | |
| continuous operating current [% of le] at 40 °C | % | 115 | | | |
| power loss [W] at operational current at 40 °C during operation typical | W | 15 | | | |
| 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 frequency | % | -10 | | | |
| relative positive tolerance of the control supply voltage frequency | % | 10 | | | |
| 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 | | S2 | | | |
| width | mm | 55 | | | |
| height | mm | 160 | | | |
| depth | mm | 170 | | | |
| fastening method | | screw and snap-on mounting | | | |
| mounting position | | With additional fan: With vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back Without additional fan: With vertical mounting surface +/-10° rotatable, with vertical mounting surface +/- 10° t | | | |
| 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 | | | |
| 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 | _ | 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 (1.5 16 mm²) | | | |
| finely stranded with core end processing | | 0.75 25 mm² | | | |
| stranded | | 0.75 35 mm² | | | |
| type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point | | | | | |
| • solid | | 2x (1.5 16 mm²) | | | |
| finely stranded with core end processing | | 1.5 25 mm ² | | | |
| stranded | | 1.5 35 mm² | | | |
| type of connectable conductor cross-sections for main contacts for box terminal using both clamping points | | | | | |
| • solid | | 2x (1.5 16 mm²) | | | |
| | | | | | |

| finely stranded with core end processing | | 2x (1.5 16 ı | | | |
|---|---------------|---|---|------------------------|--|
| stranded | | 2x (1.5 25 ı | mm²) | | |
| type of connectable conductor cross-sections for AWG cables for main contacts for box terminal | | | | | |
| using the back clamping point | | 16 2 | | | |
| using the back clamping point using the front clamping point | | 18 2 | | | |
| using both clamping points | | 2x (16 2) | | | |
| type of connectable conductor cross-sections for auxiliary | | 24 (10 2) | | | |
| contacts | | | | | |
| • solid | | 2x (0.5 2.5 | mm²) | | |
| finely stranded with core end processing | | 2x (0.5 1.5 | mm²) | | |
| type of connectable conductor cross-sections for AWG cables | | | | | |
| for auxiliary contacts | | 2x (20 14) | | | |
| for auxiliary contacts finely stranded with core end processing | | 2x (20 16) | | | |
| Ambient conditions | _ | | | | |
| installation altitude at height above sea level | m | 5 000 | | | |
| environmental category | | | | | |
| during transport according to IEC 60721 | | | 1, 2M2 (max. fall height 0. | | |
| during storage according to IEC 60721 | | | 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get incide the devices), 1M4 | | |
| • during operation according to IEC 60721 | | (sand must not get inside the devices), 1M4 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 | | | |
| ambient temperature | | | | ,, | |
| during operation | °C | -25 +60 | | | |
| during storage | °C | -40 +80 | | | |
| derating temperature | °C | 40 | | | |
| protection class IP on the front according to IEC 60529 | - | IP20 | | | |
| touch protection on the front according to IEC 60529 | - | finger-safe, for vertical contact from the front | | | |
| Environmental footprint | | <u> </u> | | | |
| Global Warming Potential [CO2 eq] total | kg | 181 | | | |
| Global Warming Potential [CO2 eq] during manufacturing | kg | 26.9 | | | |
| global warming potential [CO2 eq] during sales | kg | 0.324 | | | |
| Global Warming Potential [CO2 eq] during operation | kg | 158 | | | |
| Global Warming Potential [CO2 eq] after end of life | kg | -4.56 | | | |
| UL/CSA ratings | | | | | |
| yielded mechanical performance [hp] for 3-phase AC motor | | | | | |
| • at 220/230 V | | | | | |
| — at standard circuit at 50 °C rated value | hp | 20 | | | |
| ● at 460/480 V | | | | | |
| — at standard circuit at 50 °C rated value | hp | 40 | | | |
| contact rating of auxiliary contacts according to UL | | B300 / R300 | | | |
| Approvals Certificates | | | | | |
| General Product Approval | | | | | |
| | | | | | |
| Confirmation | <u>on</u> | | ŝ | | |
| CE UK Confirmation | | (\mathbf{m}) | (VL) | FHI | |
| EG-Konf. | | | $\mathbf{\nabla}$ | LIIL | |
| | | | | | |
| | | | | | |
| EMV For use in haz | zardous locat | tions | Test Certificates | | |
| | | | | | |
| | | IFCF. | Type Test Certific- | Special Test Certific- | |
| /(v) (Ex) | > | IECEX | ates/Test Report | ate | |
| RCM ATEX | | IECEx | | | |
| | | | | | |
| | | | | | |
| Marine / Shipping | oth | ner | Railway | | |
| | | | | | |
| | | | | | |







Special Test Certificate



Environment



Environmental Confirmations

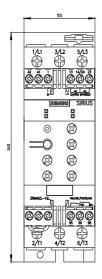
Further information

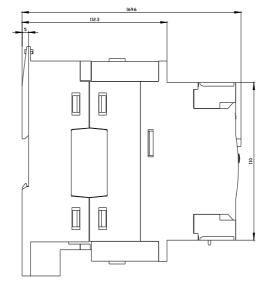
Simulation Tool for Soft Starters (STS) https://support.industry.siemens.com/cs/ww/en/view/101494917 Information on the packaging https://support.industry.siemens.com/cs/ww/en/view/109813875 Information- and Downloadcenter (Catalogs, Brochures,...) https://www.siemens.com/ic10 Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW4038-1BB14 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4038-1BB14

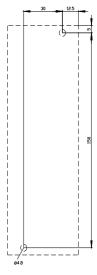
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

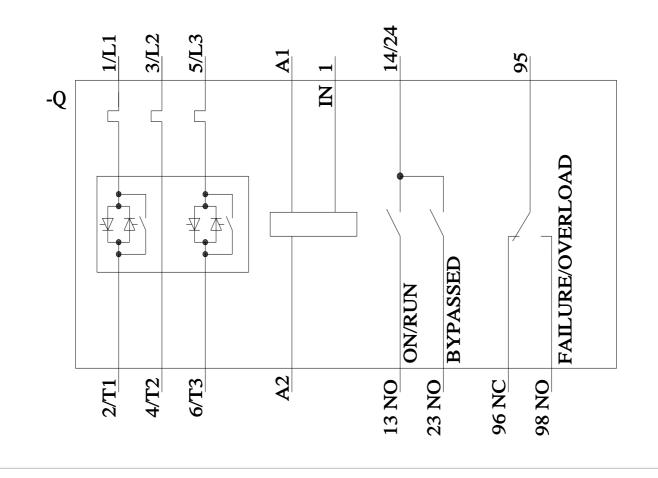
https://support.industry.siemens.com/cs/ww/en/ps/3RW4038-1BB14

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4038-1BB14&lang=en









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