SIEMENS

Data sheet

3RW3038-2BB14



SIRIUS soft starter S2 72 A, 37 kW/400 V, 40 °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 | | 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 |
| 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 | 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 |
| minimum load [%] | % | 10 |
| continuous operating current [% of le] at 40 °C | % | 115 |
| power loss [W] at operational current at 40 °C during | W | 15 |

| 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 | % | -10 |
| voltage frequency | | |
| 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 | % | -10 |
| 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 | % | -10 |
| 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 | % | -10 |
| voltage at DC relative tolerance of the control supply | % | 10 |
| voltage at DC | | |
| display version for fault signal | | red |
| Mechanical data | | |
| size of engine control device | 200 | S2 |
| width | mm | 55 160 |
| height depth | mm mm | 170 |
| 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 |
| Connections/ Terminals | | |
| type of electrical connection | | orrow two terminals |
| for main current circuit for auxiliary and control circuit | | screw-type terminals spring-loaded terminals |
| • for auxiliary and control circuit number of NC contacts for auxiliary contacts | | o |
| 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 | | $2x(1 - 16 mm^2)$ |
| solid finally stranded with core and processing | | 2x (1.5 16 mm²) 1.5 25 mm² |
| finely stranded with core end processing stranded | | 1.5 25 mm ² |
| type of connectable conductor cross-sections for main contacts for box terminal using the back | | |
| clamping point | | $2 \times (1.5 - 1.6 \text{ mm}^2)$ |
| solid finely stranded with core end processing | | 2x (1.5 16 mm²) 1.5 25 mm² |
| Intervision and ed with core end processing stranded | | 1.5 35 mm ² |
| 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 mm ²) |
| • stranded | | 2x (1.5 25 mm²) |
| type of connectable conductor cross-sections at AWG | | |

| using the back using the front using both clan type of connectable auxiliary contacts solid finely stranded | clamping point | tions for | | 16 2 18 2 2x (16 2) 2x (0.25 2.5 2x (0.25 1.5 | | |
|--|---|-------------------------------|-------------|--|---|--|
| for auxiliary cor | ntacts | | | 2x (24 14) | | |
| Ambient conditions | | | | , , , , , , , , , , , , , , , , , , , | | |
| environmental categ • during transpor • during storage • during operation ambient temperatur • during operation • during storage derating temperatur protection class IP of 60529 | t according to IEC 6072 according to IEC 60721 in according to IEC 6072 in re on the front according the front according to is | 21 21 • • • • | n C C | 1K6 (only occ 1S2 (sand mu 3K6 (no forma mist), 3S2 (sa -25 +60 -40 +80 40 IP20 | 1, 2M2 (max. fall heigh asional condensation) ist not get inside the da ation of ice, no conden ind must not get into th r vertical contact from | , 1C2 (no salt mist), evices), 1M4 sation), 3C3 (no salt he devices), 3M6 |
| Declaration of Conformity | Test Certificates | | othe | r | | Railway |
| CE EG-Konf. | <u>Type Test Certific-</u> ates/Test Report | Special Test Certific- ate | Mi | <u>scellaneous</u> | <u>Confirmation</u> | Vibration and Shock |
| Railway | | | | | | |
| Confirmation | | | | | | |

| hp | 20 | | | | |
|---|-------------|--|--|--|--|
| | | | | | |
| hp | 40 | | | | |
| | B300 / R300 | | | | |
| Further information | | | | | |
| Simulation Tool for Soft Starters (STS) https://support.industry.siemens.com/cs/ww/en/view/101494917 Information on the packaging | | | | | |
| | hp | | | | |

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=3RW3038-2BB14

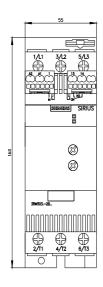
Cax online generator

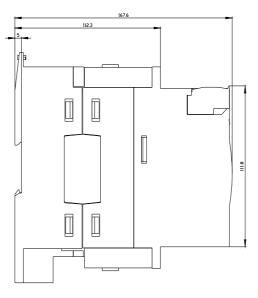
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW3038-2BB14

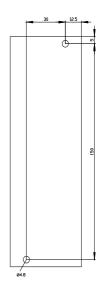
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

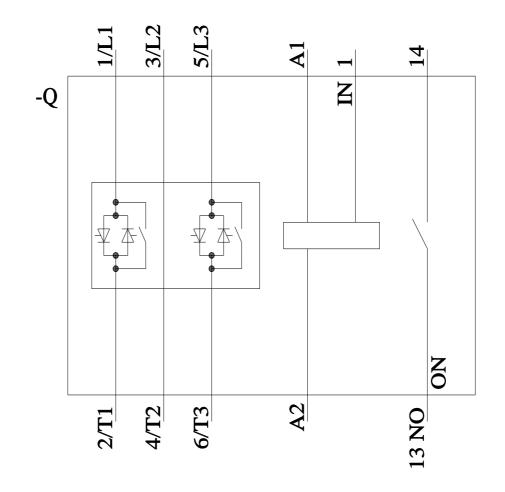
https://support.industry.siemens.com/cs/ww/en/ps/3RW3038-2BB14

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW3038-2BB14&lang=en









last modified:

1/16/2022 🖸