SIEMENS

Data sheet



SIRIUS soft starter Values at 460 V, 50 °C standard: 215 A, 150 hp Inside-delta: 372 A, 300 hp 200-460 V AC, 115 V AC spring-type terminals !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5544-2HA14<<

3RW4444-2BC34

| 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 | | Yes |
| external reset | | Yes |
| adjustable current limitation | | Yes |
| • inside-delta circuit | | Yes |
| product component motor brake output | | Yes |
| insulation voltage rated value | V | 690 |
| degree of pollution | | 3, acc. to IEC 60947-4-2 |
| reference code acc. to DIN EN 61346-2 | | Q |
| reference code acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750 | | G |
| Power Electronics | | |
| product designation | | Soft starter |
| operational current | | |
| at 40 °C rated value | А | 250 |
| at 50 °C rated value | А | 215 |
| at 60 °C rated value | А | 185 |
| operational current for 3-phase motors at inside-delta circuit | | |
| at 40 °C rated value | А | 433 |
| • at 50 °C rated value | А | 372 |
| • at 60 °C rated value | А | 320 |
| yielded mechanical performance for 3-phase motors | | |
| • at 230 V | | |
| — at standard circuit at 40 °C rated value | W | 75 000 |
| — at inside-delta circuit at 40 °C rated value | W | 132 000 |
| • at 400 V | | |
| — at standard circuit at 40 °C rated value | W | 132 000 |
| — at inside-delta circuit at 40 °C rated value | W | 250 000 |
| yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value | hp | 60 |

| | _ | |
|--|----|--|
| 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 | 200 460 |
| relative negative tolerance of the operating voltage at standard circuit | % | -15 |
| relative positive tolerance of the operating voltage at standard circuit | % | 10 |
| operating voltage at inside-delta circuit rated value | V | 200 460 |
| relative negative tolerance of the operating voltage at inside-delta circuit | % | -15 |
| relative positive tolerance of the operating voltage at inside-delta circuit | % | 10 |
| minimum load [%] | % | 8 |
| adjustable motor current for motor overload protection minimum rated value | A | 50 |
| continuous operating current [% of le] at 40 °C | % | 115 |
| power loss [W] at operational current at 40 °C during operation typical | W | 110 |
| Control circuit/ Control | | |
| type of voltage of the control supply voltage | _ | AC |
| 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 rated value | V | 115 |
| • at 60 Hz rated value | V | 115 |
| 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 |
| display version for fault signal | | Display |
| Mechanical data | _ | |
| width | mm | 210 |
| height | mm | 230 |
| depth | mm | 298 |
| fastening method | - | screw fixing |
| mounting position | | with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back |
| required spacing with side-by-side mounting | | |
| • upwards | mm | 100 |
| at the side | mm | 5 |
| downwards | mm | 75 |
| wire length maximum | m | 500 |
| number of poles for main current circuit | | 3 |
| Connections/ Terminals | | |
| type of electrical connection | | |
| for main current circuit | | busbar connection |
| for auxiliary and control circuit | | spring-loaded terminals |
| number of NC contacts for auxiliary contacts | - | 0 |
| number of NO contacts for auxiliary contacts | | 3 |
| 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 | | 70 040 3 | |
|---|----|---|----------------------|
| • finely stranded with core end processing | | 70 240 mm ² | |
| finely stranded without core end processing stranded | | 70 240 mm² 95 300 mm² | |
| type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point | | 93 300 mm | |
| finely stranded with core end processing | | 120 185 mm² | |
| finely stranded without core end processing | | 120 185 mm² | |
| stranded | | 120 240 mm² | |
| type of connectable conductor cross-sections for main contacts for box terminal using both clamping points | | | |
| finely stranded with core end processing | | min. 2x 50 mm ² , max. 2x 185 mm ² | |
| finely stranded without core end processing | | min. 2x 50 mm ² , max. 2x 185 mm ² | |
| stranded | | max. 2x 70 mm ² , max. 2x 240 mm | 2 |
| ype of connectable conductor cross-sections at AWG cables for main contacts for box terminal | | | |
| using the back clamping point | | 250 500 kcmil | |
| using the front clamping point | | 3/0 600 kcmil | |
| using both clamping points | | min. 2x 2/0, max. 2x 500 kcmil | |
| type of connectable conductor cross-sections for DIN cable lug for main contacts | | | |
| • finely stranded | | 50 240 mm ² | |
| • stranded | | 70 240 mm² | |
| type of connectable conductor cross-sections for auxiliary contacts | | | |
| • solid | | 2x (0.25 1.5 mm²) | |
| finely stranded with core end processing | | 2x (0.25 1.5 mm ²) | |
| type of connectable conductor cross-sections at AWG | | | |
| cables | | | |
| for main contacts for auxiliary contacts | | 2/0 500 kcmil 2x (24 16) | |
| mbient conditions | | 24 (27 10) | |
| nstallation altitude at height above sea level | m | 5 000 | |
| environmental category | | 3 000 | |
| during transport acc. to IEC 60721 | | 2K2, 2C1, 2S1, 2M2 (max. fall hei | aht 0.3 m) |
| during storage acc. to IEC 60721 | | 1K6 (only occasional condensation), 1C2 (no salt mist), | |
| | | 1S2 (sand must not get inside the | |
| • during operation acc. to IEC 60721 | | 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 | 60 | |
| during storage | °C | -25 +80 | |
| derating temperature | °C | 40 | |
| protection class IP on the front acc. to IEC 60529 | | IP00; IP20 with box terminal/cover | |
| touch protection on the front acc. to IEC 60529 | | finger-safe, for vertical contact fror terminal/cover | n the front with box |
| ertificates/ approvals | | | |
| | | | Declaration of |
| General Product Approval | | EMC | Conformity |
| | | _ | |
| | | гпг 🙈 | ((|
| | | | |
| | | RCM | EG-Konf. |
| CSA CCC UL | | | |
| CSA CCC UL | | | |
| CSA CCC UL | | | |

| | Type Test Certific- ates/Test Report | ABS |
|--|---|-----|
|--|---|-----|







Marine / Shipping



Confirmation

other

| yielded mechanical performance [hp] for 3-phase AC motor | | |
|--|----|-------------|
| • at 200/208 V | | |
| — at inside-delta circuit at 50 °C rated value | hp | 125 |
| • at 220/230 V | | |
| — at standard circuit at 50 °C rated value | hp | 75 |
| — at inside-delta circuit at 50 °C rated value | hp | 150 |
| • at 460/480 V | | |
| — at standard circuit at 50 °C rated value | hp | 150 |
| - at inside-delta circuit at 50 °C rated value | hp | 300 |
| contact rating of auxiliary contacts according to UL | | B300 / R300 |

Simulation Tool for Soft Starters (STS) https://support.industry.siemens.com/cs/ww/en/view/101494917

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=3RW4444-2BC34

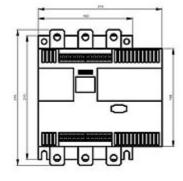
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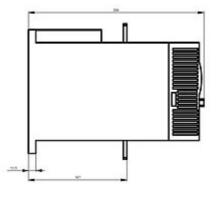
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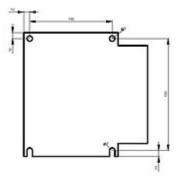
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

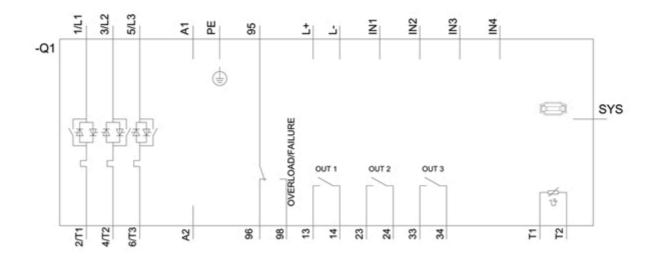
https://support.industry.siemens.com/cs/ww/en/ps/3RW4444-2BC34

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4444-2BC34&lang=en









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