SIEMENS

Data sheet 3RW4444-6BC44



SIRIUS soft starter Values at 400 V, 40 °C standard: 250 A, 132 kW Inside-delta: 433 A, 250 kW 200-460 V AC, 230 V AC Screw terminals !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5544-6HA14<<

| 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 | | 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 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 | Α | 250 |
| at 50 °C rated value | Α | 215 |
| at 60 °C rated value | Α | 185 |
| operational current for 3-phase motors at inside-delta circuit | | |
| at 40 °C rated value | Α | 433 |
| at 50 °C rated value | Α | 372 |
| at 60 °C rated value | Α | 320 |
| yielded mechanical performance for 3-phase motors • at 230 ∨ | | |
| — at standard circuit at 40 °C rated value | kW | 75 |
| at inside-delta circuit at 40 °C rated value | kW | 132 |
| • at 400 V | | |
| — at standard circuit at 40 °C rated value | kW | 132 |
| — at inside-delta circuit at 40 °C rated value | kW | 250 |
| 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 | Α | 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 | _ | |
| | | 4.0 |
| 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 | 230 |
| at 60 Hz rated value | V | 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 |
| 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 | | screw-type 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 | | |
| finely stranded with core end processing | | 70 240 mm² |
| finely stranded without core end processing | | 70 240 mm² |
| • stranded | | 95 300 mm² |
| type of connectable conductor cross-sections for main contacts for box terminal using the back | | |
| clamping point | | |
| clamping point • finely stranded with core end processing | | 120 185 mm² |

• finely stranded without core end processing 120 ... 185 mm² 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 mm², max. 2x 185 mm² • finely stranded without core end processing min. 2x 50 mm², max. 2x 185 mm² max. 2x 70 mm², max. 2x 240 mm² type 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 mm² 70 ... 240 mm² type of connectable conductor cross-sections for auxiliary 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 at AWG cables · for main contacts 2/0 ... 500 kcmil 2x (20 ... 14) for auxiliary contacts • for auxiliary contacts finely stranded with core end 2x (20 ... 16) processing **Ambient conditions** installation altitude at height above sea level m 5 000 environmental category • during transport according to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) • during storage according to IEC 60721 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 • during operation according 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 °C during storage -25 ... +80 °C 40 derating temperature protection class IP on the front according to IEC IP00; IP20 with box terminal/cover 60529 touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front with box terminal/cover

Certificates/ approvals

General Product Approval







Confirmation







Declaration of Conformity

Test Certificates

Marine / Shipping





Type Test Certificates/Test Report

Special Test Certificate





Marine / Shipping

other







| UL/CSA ratings | | |
|--|----|-------------|
| 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 |

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=3RW4444-6BC44

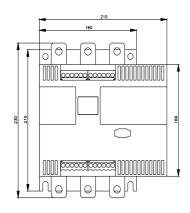
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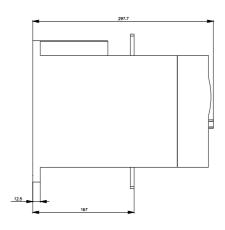
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4444-6BC44

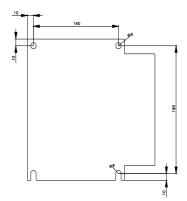
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

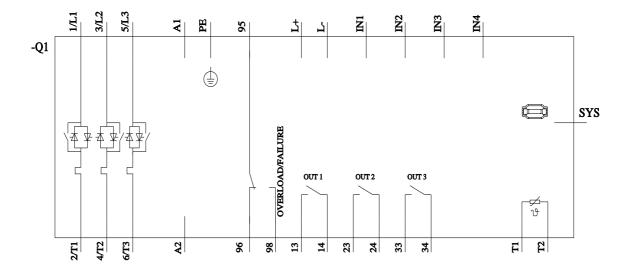
https://support.industry.siemens.com/cs/ww/en/ps/3RW4444-6BC44

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4444-6BC44&lang=en









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