SIEMENS

Data sheet

SIRIUS soft starter Values at 575 V, 50 °C standard: 100 A, 75 hp Inside-delta: 173 A, 150 hp 400-600 V AC, 115 V AC spring-type terminals !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5534-2HA16<<

| 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 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 | 113 |
| at 50 °C rated value | А | 100 |
| at 60 °C rated value | А | 88 |
| operational current for 3-phase motors at inside-delta circuit | | |
| at 40 °C rated value | А | 196 |
| at 50 °C rated value | А | 173 |
| at 60 °C rated value | А | 450 |
| | ~ | 152 |
| yielded mechanical performance for 3-phase motors | | 152 |
| yielded mechanical performance for 3-phase motors ● at 400 V | ~ | 152 |
| | W | 55 000 |
| • at 400 V | | |
| • at 400 V — at standard circuit at 40 °C rated value | W | 55 000 |
| at 400 V at standard circuit at 40 °C rated value at inside-delta circuit at 40 °C rated value | W | 55 000 |
| at 400 V at standard circuit at 40 °C rated value at inside-delta circuit at 40 °C rated value at 500 V | W W | 55 000 110 000 |
| at 400 V at standard circuit at 40 °C rated value at inside-delta circuit at 40 °C rated value at 500 V at standard circuit at 40 °C rated value | W W W | 55 000 110 000 75 000 |

3RW4434-2BC35

| relative positive tolerance of the operating frequency | % | 10 |
|--|----|--|
| operating voltage at standard circuit rated value | V | 400 600 |
| 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 | 400 600 |
| 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 | 22 |
| continuous operating current [% of le] at 40 °C | % | 115 |
| power loss [W] at operational current at 40 °C during operation typical | W | 64 |
| 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 | 170 |
| height | mm | 200 |
| depth | mm | 270 |
| 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 | | |
| finely stranded with core end processing | | 16 70 mm² |
| | | |

| | | 40 70 3 | | |
|---|-------|---------------------------------|-----------------------|------------------------------|
| finely stranded without core end processing | | 16 70 mm² | | |
| stranded | | 16 70 mm² | | |
| type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point | | | | |
| finely stranded with core end processing | | 16 70 mm² | | |
| finely stranded with core end processing finely stranded without core end processing | | 16 70 mm ² | | |
| | | 16 70 mm ² | | |
| • stranded | | 16 70 mm- | | |
| type of connectable conductor cross-sections for main contacts for box terminal using both clamping points | | | | |
| finely stranded with core end processing | | max. 1x 50 mr | m², 1x 70 mm² | |
| finely stranded without core end processing | | max. 1x 50 mr | m², 1x 70 mm² | |
| stranded | | max. 2x 70 mr | m² | |
| type of connectable conductor cross-sections at AWG cables for main contacts for box terminal | | | | |
| using the back clamping point | | 6 2/0 | | |
| using the front clamping point | | 6 2/0 | | |
| using both clamping points | | max. 2x 1/0 | | |
| type of connectable conductor cross-sections for DIN cable lug for main contacts | | | | |
| finely stranded | | 16 95 mm² | | |
| stranded | | 25 120 mm ² | 2 | |
| type of connectable conductor cross-sections for auxiliary contacts | | | | |
| • solid | | 2x (0.25 1.5 | 5 mm²) | |
| finely stranded with core end processing | | 2x (0.25 1.5 | , | |
| type of connectable conductor cross-sections at AWG cables | | | , | |
| for main contacts | | 4 250 kcmil | | |
| for auxiliary contacts | | 2x (24 16) | | |
| Ambient conditions | | | | |
| installation altitude at height above sea level | m | 5 000 | | |
| environmental category | | | | |
| during transport acc. to IEC 60721 | | 2K2 2C1 2S1 | 1, 2M2 (max. fall h | eight 0.3 m) |
| during storage acc. to IEC 60721 | | | | ion), 1C2 (no salt mist), |
| 0 | | 1S2 (sand mu | ist not get inside th | |
| during operation acc. to IEC 60721 | | | | to the devices), 3M6 |
| ambient temperature | 00 | <u></u> | | |
| 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 | h box terminal/cov | rer |
| touch protection on the front acc. to IEC 60529 | | finger-safe, for terminal/cover | | om the front with box |
| Certificates/ approvals | | | | |
| General Product Approval | | | EMC | Declaration of Conformity |
| | | r n r | емс | |
| | | tHL | | EG-Konf. |
| Test Certificates Marine / Ship | oping | | | |

| <u>Special Test Certific-</u> <u>ate</u> | <u>Type Test Certific-</u> ates/Test Report | ABS | B D R E A D VERITAS | Lloyd's Register urs | PRS |
|---|--|-----|------------------------|----------------------------|-----|
| Marine / Shipping | other | | | | |
| A STOCKED AND | Confirmation | | | | |

| UL/CSA ratings | | | | |
|---|----|-------------|--|--|
| yielded mechanical performance [hp] for 3-phase AC motor | | | | |
| • at 460/480 V | | | | |
| — at standard circuit at 50 °C rated value | hp | 75 | | |
| — at inside-delta circuit at 50 °C rated value | hp | 125 | | |
| ● at 575/600 V | | | | |
| — at standard circuit at 50 °C rated value | hp | 75 | | |
| - at inside-delta circuit at 50 °C rated value | hp | 150 | | |
| 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- 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=3RW4434-2BC35

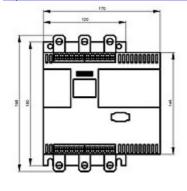
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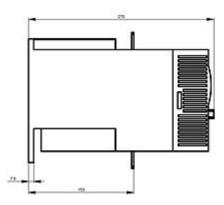
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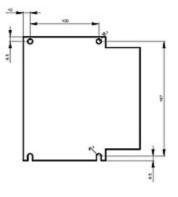
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

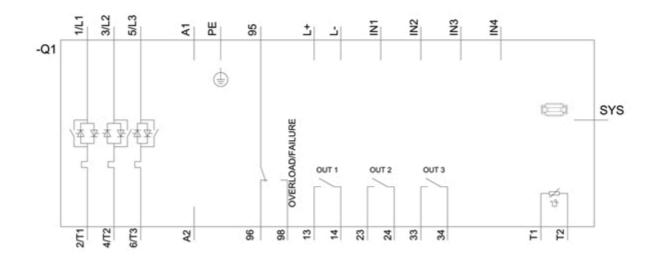
https://support.industry.siemens.com/cs/ww/en/ps/3RW4434-2BC35

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4434-2BC35&lang=en









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