SIEMENS

Data sheet 3RW4465-2BC35



SIRIUS soft starter Values at 575 V, 50 °C standard: 970 A, 1100 hp Inside-delta: 1680 A, 1900 hp 400-600 V AC, 115 V AC spring-type terminals !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5558-2HA16<<

| 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 | Α | 1 076 |
| at 50 °C rated value | Α | 970 |
| at 60 °C rated value | Α | 880 |
| operational current for 3-phase motors at inside-delta circuit | | |
| at 40 °C rated value | Α | 1 864 |
| at 50 °C rated value | Α | 1 680 |
| at 60 °C rated value | А | 1 524 |
| yielded mechanical performance for 3-phase motors | | |
| • at 400 V | | |
| — at standard circuit at 40 °C rated value | W | 630 000 |
| — at inside-delta circuit at 40 °C rated value | W | 1 100 000 |
| ● at 500 V | | |
| — at standard circuit at 40 °C rated value | W | 800 000 |
| — at inside-delta circuit at 40 °C rated value | W | 1 350 000 |
| operating frequency rated value | Hz | 50 60 |
| relative negative tolerance of the operating frequency | % | -10 |

| poperating voltage at standard circuit reted value relative negative telerance of the operating voltage at standard circuit reteative positive tolerance of the operating voltage at standard circuit reteative positive tolerance of the operating voltage at standard circuit poerating voltage at inside-defla circuit reteative negative tolerance of the operating voltage at standard circuit reteative negative tolerance of the operating voltage at miniside-defla circuit reteative positive tolerance of the operating voltage at miniside-defla circuit reteative positive tolerance of the operating voltage at miniside-defla circuit reteative positive tolerance of the operating voltage at miniside-defla circuit reteative positive tolerance of the operating voltage at continuous operating current (70 of leg at 40 °C power loss [W] at operational current at 40 °C during operating current (70 of leg at 40 °C power loss [W] at operational current at 40 °C during operating current (70 of leg at 40 °C power loss [W] at operational current at 40 °C during operating current (70 of leg at 40 °C power loss [W] at operational current at 40 °C during operating current (70 of leg at 40 °C power loss [W] at operational current at 40 °C during operating current (70 of leg at 40 °C power loss [W] at operational current at 40 °C during operating current (70 of leg at 40 °C power loss [W] at operational current at 40 °C during operational current current operational current curren | | - 0/ | |
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| adjustable motor current for motor overload protection minimum rated value continuous operating current [% of le] at 40 °C which protection minimum rated value control supply collage peration typical which protection with | | % | 10 |
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| Dower loss W at operational current at 40 °C during operation typical operation typical operation typical operation typical portain typical operation t | | А | 215 |
| control circult/ Control type of voltage of the control supply voltage control supply voltage frequency 1 rated value | continuous operating current [% of le] at 40 °C | % | 115 |
| type of voltage of the control supply voltage control supply voltage frequency 1 rated value relative negative tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency control supply voltage 1 at AC • at 50 Hz rated value | | W | 510 |
| control supply voltage frequency 1 rated value | Control circuit/ Control | | |
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| relative negative tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency control supply voltage 1 at AC • at 50 Hz rated value • at 60 Hz rate | control supply voltage frequency 1 rated value | Hz | 50 |
| voltage frequency rolative positive tolerance of the control supply voltage frequency control supply voltage 1 at AC • at 50 Hz rated value • at 60 Hz rated value • at 60 Hz rated value • at 60 Hz rated value • at 60 Hz rated value • at 60 Hz rated value • at 60 Hz rated value • at 60 Hz rated value • at 60 Hz rated value • at 60 Hz rated value • at 60 Hz rated value • at 60 Hz rated value • at 60 Hz rated value • at 50 Hz relative positive tolerance of the control supply voltage at AC at 50 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz display version for fault signal **Wechanical data** width **mm** **mm** **positive tolerance of the control supply voltage at AC at 60 Hz display version for fault signal **wechanical data** width **mm** **positive tolerance of the control supply voltage at AC at 60 Hz display version for fault signal **wechanical data** width **mm** **positive tolerance of the control supply voltage at AC at 60 Hz display version for fault signal **wechanical data** width **mm** **positive tolerance of the control supply voltage at AC at 60 Hz Display **wechanical data** width **mm** **positive tolerance of the control supply voltage at AC at 60 Hz **positive tolerance of the control supply voltage at AC at 60 Hz **positive tolerance of the control supply voltage at AC at 60 Hz **positive tolerance of the control supply **pos | control supply voltage frequency 2 rated value | Hz | 60 |
| voltage frequency control supply voltage 1 at AC • at 50 Hz rated value • at 60 Hz rated value voltage at AC at 50 Hz relative negative tolerance of the control supply voltage at AC at 50 Hz relative positive tolerance of the control supply voltage at AC at 50 Hz relative negative tolerance of the control supply voltage at AC at 50 Hz relative negative tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz display version for fault signal Mechanical data width mm 575 height mm 780 depth mm 292 fastening method mounting position required spacing with side-by-side mounting • upwards • at the side • downwards wire length maximum m 500 number of poles for main current circuit Connections/ Terminals type of electrical connection • for main current circuit • for auxillary and control circuit number of NC contacts for auxillary contacts number of CO contacts for auxillary contacts number of CO contacts for auxillary contacts number of CO contacts for auxillary contacts number of main contacts type of connectable conductor cross-sections for DIN cable lug for main contacts | | % | -10 |
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| relative positive tolerance of the control supply voltage at AC at 50 Hz relative negative tolerance of the control supply voltage at AC at 60 Hz relative negative tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz display version for fault signal Mechanical data width height mm 575 height depth mm 292 fastening method mounting position required spacing with side-by-side mounting • upwards • at the side • downwards wire length maximum number of poles for main current circuit connections/ Terminals type of electrical connection • for main current circuit number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts number of connectable conductor cross-sections for DIN cable lug for main contacts type of connectable conductor cross-sections for DIN cable lug for main contacts type of connectable conductor cross-sections for DIN cable lug for main contacts type of connectable conductor cross-sections for DIN cable lug for main contacts type of connectable conductor cross-sections for DIN cable lug for main contacts 10 10 10 10 10 10 10 10 10 1 | at 60 Hz rated value | V | 115 |
| relative negative tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz display version for fault signal Mechanical data width mm 575 height mm 780 depth mm 292 fastening method screw fixing mounting position required spacing with side-by-side mounting upwards at the side mm 5 downwards mm 5 wire length maximum m 500 number of poles for main current circuit connections/ Terminals type of electrical connection for auxiliary and control circuit number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts number of CO contacts for auxiliary contacts type of connectable conductor cross-sections for DIN cable lug for main cortacts type of connectable conductor cross-sections for DIN cable lug for main cortacts | | % | -15 |
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| display version for fault signal Mechanical data width mm 575 height mm 780 depth mm 292 fastening method screw fixing mounting position required spacing with side-by-side mounting • upwards • at the side • downwards wire length maximum m500 number of poles for main current circuit • for main current circuit • for main current circuit • for auxiliary and control circuit number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts number of CO contacts for auxiliary contacts type of connectable conductor cross-sections for DIN cable lug for main contacts | | % | -15 |
| Mechanical data width mm 575 height mm 780 depth mm 292 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 mm 100 • upwards mm 5 • downwards mm 75 wire length maximum m 500 number of poles for main current circuit 3 Connections/ Terminals type of electrical connection busbar connection • for auxiliary and control circuit spring-loaded terminals number of NC contacts for auxiliary contacts 0 number of CO contacts for auxiliary contacts 3 number of CO contacts for auxiliary contacts 3 type of connectable conductor cross-sections for DIN cable lug for main contacts 1 | | % | 10 |
| width | display version for fault signal | | Display |
| height mm 780 depth mm 292 fastening method screw fixing 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 • at the side • downwards wire length maximum number of poles for main current circuit type of electrical connection • for main current circuit • for auxiliary and control circuit number of NC contacts for auxiliary contacts number of CO contacts for auxiliary contacts number of CO contacts for auxiliary contacts type of connectable conductor cross-sections for DIN cable lug for main contacts | Mechanical data | | |
| depth mm 292 fastening method screw fixing mounting position required spacing with side-by-side mounting • upwards • at the side • downwards wire length maximum number of poles for main current circuit type of electrical connection • for auxiliary and control circuit number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts type of connectable conductor cross-sections for DIN cable lug for main contacts | width | mm | 575 |
| fastening method mounting position screw fixing 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 at the side at the side adomnwards mm 5 wire length maximum mm 500 number of poles for main current circuit 3 Connections/ Terminals type of electrical connection a for auxiliary and control circuit number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts number of CO contacts for auxiliary contacts type of connectable conductor cross-sections for DIN cable lug for main contacts | height | mm | 780 |
| 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 at the side downwards mm 5 wire length maximum muber of poles for main current circuit type of electrical connection for auxiliary and control circuit spring-loaded terminals number of NC contacts for auxiliary contacts number of CO contacts for auxiliary contacts number of CO contacts for auxiliary contacts type of connectable conductor cross-sections for DIN cable lug for main contacts | depth | mm | 292 |
| required spacing with side-by-side mounting upwards at the side downwards mm 5 downwards mm 75 wire length maximum number of poles for main current circuit for auxiliary and control circuit number of NC contacts for auxiliary contacts number of CO contacts for auxiliary contacts number of CO contacts for auxiliary contacts type of connectable conductor cross-sections for DIN cable lug for main contacts | fastening method | | screw fixing |
| upwards at the side downwards mm tonnections/ Terminals type of electrical connection for main current circuit for auxiliary and control circuit number of NC contacts for auxiliary contacts number of CO contacts for auxiliary contacts type of connectable conductor cross-sections for DIN cable lug for main contacts | mounting position | | vertical mounting surface +/- 22.5° tiltable to the front and |
| upwards at the side downwards mm tonnections/ Terminals type of electrical connection for main current circuit for auxiliary and control circuit number of NC contacts for auxiliary contacts number of CO contacts for auxiliary contacts type of connectable conductor cross-sections for DIN cable lug for main contacts | required spacing with side-by-side mounting | | |
| at the side downwards mm 75 wire length maximum number of poles for main current circuit Connections/ Terminals type of electrical connection for main current circuit for auxiliary and control circuit number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts type of connectable conductor cross-sections for DIN cable lug for main contacts | | mm | 100 |
| 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 DIN cable lug for main contacts | • at the side | mm | 5 |
| number of poles for main current circuit Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts type of connectable conductor cross-sections for DIN cable lug for main contacts | downwards | mm | 75 |
| type of electrical connection • for main current circuit • for auxiliary and control circuit number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts 1 type of connectable conductor cross-sections for DIN cable lug for main contacts | wire length maximum | m | 500 |
| type of electrical connection • for main current circuit • for auxiliary and control circuit number of NC contacts for auxiliary contacts number of CO contacts for auxiliary contacts number of CO contacts for auxiliary contacts type of connectable conductor cross-sections for DIN cable lug for main contacts | number of poles for main current circuit | | 3 |
| for main current circuit for auxiliary and control circuit spring-loaded terminals number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts 1 type of connectable conductor cross-sections for DIN cable lug for main contacts | Connections/ Terminals | | |
| for main current circuit for auxiliary and control circuit spring-loaded terminals number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts 1 type of connectable conductor cross-sections for DIN cable lug for main contacts | type of electrical connection | | |
| number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts type of connectable conductor cross-sections for DIN cable lug for main contacts | 5. | | busbar connection |
| number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts type of connectable conductor cross-sections for DIN cable lug for main contacts | for auxiliary and control circuit | | spring-loaded terminals |
| number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts type of connectable conductor cross-sections for DIN cable lug for main contacts | | | 0 |
| number of CO contacts for auxiliary contacts type of connectable conductor cross-sections for DIN cable lug for main contacts | | | 3 |
| type of connectable conductor cross-sections for DIN cable lug for main contacts | | | 1 |
| • finely stranded 50 240 mm² | type of connectable conductor cross-sections for DIN | | |
| | finely stranded | | 50 240 mm² |
| • stranded 70 240 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 mm²) |
| type of connectable conductor cross-sections at AWG cables | | |
| for main contacts | | 2/0 500 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, 2M2 (max. fall height 0.3 m) |
| during storage acc. to IEC 60721 | | 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 |
| 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 |
| 04:6:4/ | | |

Certificates/ approvals

General Product Approval

EMC

Declaration of Conformity













Test Certificates

Marine / Shipping

Special Test Certific-<u>ate</u>











other

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 | 850 |
| at inside-delta circuit at 50 °C rated value | hp | 1 500 |
| • at 575/600 V | | |
| at standard circuit at 50 °C rated value | hp | 1 100 |
| at inside-delta circuit at 50 °C rated value | hp | 1 900 |
| contact rating of auxiliary contacts according to UL | | B300 / R300 |
| Further information | | |

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=3RW4465-2BC35

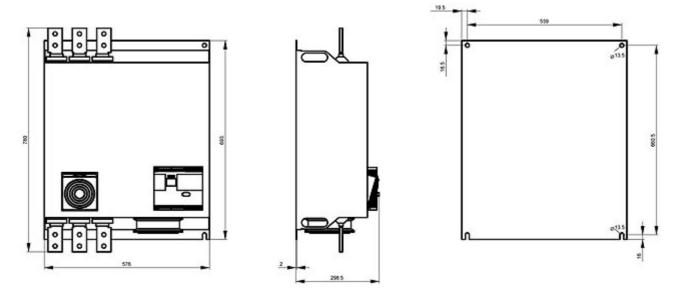
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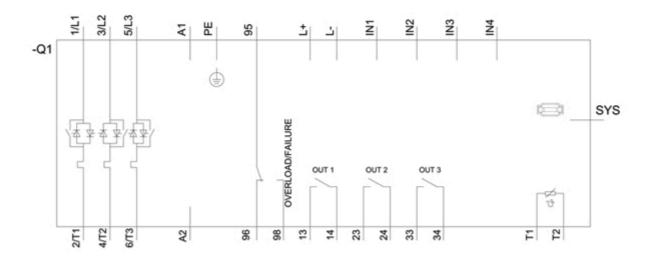
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4465-2BC35

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW4465-2BC35

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4465-2BC35&lang=en





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