SIEMENS

Data sheet

3RW4466-2BC45



SIRIUS soft starter Values at 500 V, 40 °C standard: 1214 A, 900 kW Inside-delta: 2103 A, 1500 kW 400-600 V AC, 230 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 | А | 1 214 |
| at 50 °C rated value | А | 1 076 |
| at 60 °C rated value | А | 970 |
| operational current for 3-phase motors at inside-delta circuit | | |
| at 40 °C rated value | А | 2 103 |
| at 50 °C rated value | А | 1 864 |
| at 60 °C rated value | А | 1 680 |
| yielded mechanical performance for 3-phase motors | | |
| • at 400 V | | |
| — at standard circuit at 40 °C rated value | W | 710 000 |
| — at inside-delta circuit at 40 °C rated value | W | 1 200 000 |
| • at 500 V | | |
| - at standard circuit at 40 °C rated value | W | 900 000 |
| — at inside-delta circuit at 40 °C rated value | W | 1 500 000 |
| operating frequency rated value | Hz | 50 60 |
| relative negative tolerance of the operating frequency | % | -10 |

| | 0/ | |
|---|----|--|
| 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 | А | 242 |
| continuous operating current [% of le] at 40 °C | % | 115 |
| power loss [W] at operational current at 40 °C during operation typical | W | 630 |
| 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 | 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 | 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 | | |
| • 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 main current circuit for auxiliary and control circuit | | busbar connection spring-loaded terminals |
| | | |
| for auxiliary and control circuit | | spring-loaded terminals |
| • for auxiliary and control circuit number of NC contacts for auxiliary contacts | | spring-loaded terminals 0 |
| for auxiliary and control circuit number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts | | spring-loaded terminals 0 3 |
| 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 | | spring-loaded terminals 0 3 |

| turna of compositable o | anduator areas asat | iono for | | | | |
|--|------------------------|-------------------|----|--------------------------|--|---|
| type of connectable c auxiliary contacts | onductor cross-sect | ions for | | | | |
| solid | | | | 2x (0.25 1. | 5 mm²) | |
| finely stranded w | ith core end processir | ng | | 2x (0.25 1. | | |
| type of connectable c cables | | | | | | |
| for main contacts | i | | | 2/0 500 kc | mil | |
| for auxiliary containing | acts | | | 2x (24 16) | | |
| Ambient conditions | | | | | | |
| installation altitude at | height above sea le | vel | m | 5 000 | | |
| environmental catego | ory | | | | | |
| during transport a | acc. to IEC 60721 | | | 2K2, 2C1, 2S | 1, 2M2 (max. fall he | eight 0.3 m) |
| during storage ac | cc. to IEC 60721 | | | | casional condensation ust not get inside the | on), 1C2 (no salt mist), e devices), 1M4 |
| during operation | acc. to IEC 60721 | | | | | lensation), 3C3 (no salt o 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 | | |
| Certificates/ approvals | | | | | | |
| General Product App | roval | | | | EMC | Declaration of Conformity |
| | | ٩ | | EHC | RCM | CE EG-Konf. |
| Test Certificates | Marine / Shipping | | | | | |
| <u>Special Test Certific-</u> <u>ate</u> | ABS | BUREAU VERITAS | | Hovd's Register us | PRS | ENVELCEMENT |
| | | | | | | |
| other | | | | | | |
| <u>Confirmation</u> | | | | | | |

| yielded mechanical performance [hp] for 3-phase AC motor | | |
|--|----|-------------|
| • at 460/480 V | | |
| - at standard circuit at 50 °C rated value | hp | 950 |
| — at inside-delta circuit at 50 °C rated value | hp | 1 700 |
| • at 575/600 V | | |
| — at standard circuit at 50 °C rated value | hp | 1 200 |
| — at inside-delta circuit at 50 °C rated value | hp | 2 100 |
| contact rating of auxiliary contacts according to UL | | B300 / R300 |
| urther information | | |

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=3RW4466-2BC45

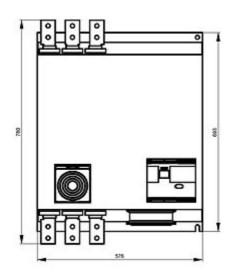
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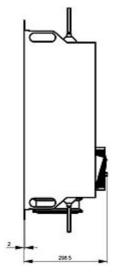
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4466-2BC45

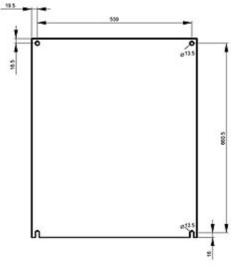
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

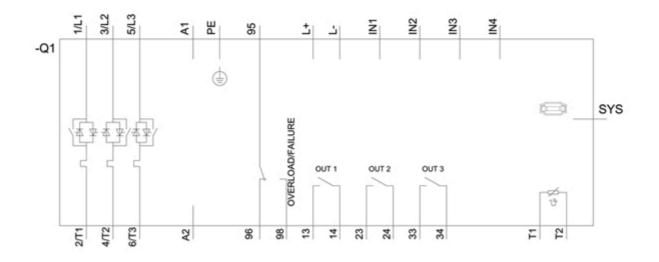
https://support.industry.siemens.com/cs/ww/en/ps/3RW4466-2BC45

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4466-2BC45&lang=en









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