SIEMENS

Data sheet

3RW4466-2BC44



SIRIUS soft starter Values at 400 V, 40 °C standard: 1214 A, 710 kW Inside-delta: 2103 A, 1200 kW 200-460 V AC, 230 V AC spring-type terminals !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5558-2HA14<<

| 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 230 V | | | | |
| - at standard circuit at 40 °C rated value | W | 400 000 | | |
| - at inside-delta circuit at 40 °C rated value | W | 710 000 | | |
| • 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 | | |
| yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value | hp | 400 | | |
| operating frequency rated value | Hz | 50 60 | | |

| | | 10 |
|--|-----|--|
| 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 | А | 242 |
| continuous operating current [% of le] at 40 °C | % | 115 |
| power loss [W] at operational current at 40 °C during | W | 630 |
| operation typical | | |
| 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 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 | | |
| finely stranded | | 50 240 mm² |
| • stranded | | 70 240 mm ² |
| | | |

| auxiliary contactsImage: solid• solid2x (0.25 1.5 mm²)• finely stranded with core end processing2x (0.25 1.5 mm²)type of connectable conductor cross-sections at AWG cables2/0 500 kcmil• for main contacts2/0 500 kcmil• for auxiliary contacts2x (24 16)Ambient conditionsImage: solidinstallation altitude at height above sea levelm• during transport acc. to IEC 607212K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m• during storage acc. to IEC 607211K6 (only occasional condensation), 1C2 (r 1S2 (sand must not get inside the devices), 3K6 (no formation of ice, no condensation), mist), 3S2 (sand must not get into the device | |
|---|--------------------------|
| finely stranded with core end processing 2x (0.25 1.5 mm²) type of connectable conductor cross-sections at AWG cables for main contacts for main contacts for auxiliary contacts 2/0 500 kcmil 2x (24 16) Ambient conditions installation altitude at height above sea level m for 00 environmental category during transport acc. to IEC 60721 during storage acc. to IEC 60721 during operation acc. to IEC 60721 during operation acc. to IEC 60721 SK6 (no formation of ice, no condensation), 1C2 (ration of ice, no | |
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| cables 2/0 500 kcmil • for main contacts 2/0 500 kcmil • for auxiliary contacts 2x (24 16) mbient conditions m 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 (r • during operation acc. to IEC 60721 3K6 (no formation of ice, no condensation), | |
| for auxiliary contacts for auxiliary contacts 2x (24 16) 2x (24 16) 3 4 | |
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| installation altitude at height above sea level m 5 000 environmental category eduring 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 (r • during operation acc. to IEC 60721 3K6 (no formation of ice, no condensation), | |
| 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 (r • during operation acc. to IEC 60721 3K6 (no formation of ice, no condensation), | |
| during transport acc. to IEC 60721 during storage acc. to IEC 60721 during operation acc. to IEC 60721 during operation acc. to IEC 60721 3K6 (no formation of ice, no condensation), acc. to IEC 60721 | |
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| during operation acc. to IEC 60721 1S2 (sand must not get inside the devices), 3K6 (no formation of ice, no condensation), | |
| | · · · |
| million, ooz (sana mast fot get mis the device | |
| 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 | |
| ertificates/ approvals | |
| General Product Approval | claration of nformity |
| | CE EG-Konf. |
| Test Certificates Marine / Shipping | |
| Special Test Certific- ate ABS BUREAU VERITAS | DINV-GL DINV-GL |
| | |
| other | |

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| <u></u> | | ation |

| 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 | 700 | |
| • at 220/230 V | | | |
| — at standard circuit at 50 °C rated value | hp | 450 | |
| — at inside-delta circuit at 50 °C rated value | hp | 850 | |
| • 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 | |
| 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=3RW4466-2BC44

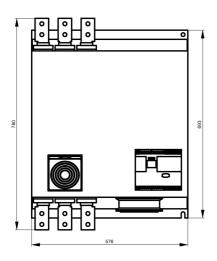
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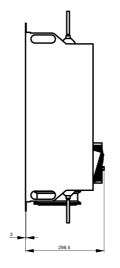
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4466-2BC44

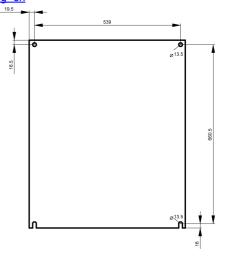
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

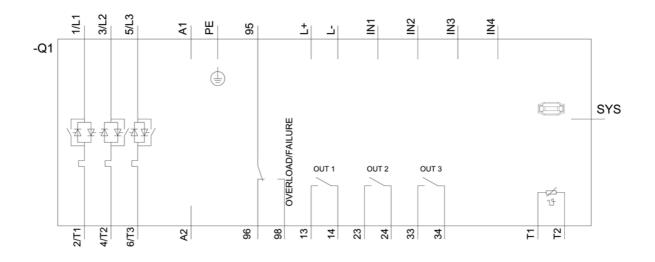
https://support.industry.siemens.com/cs/ww/en/ps/3RW4466-2BC44

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4466-2BC44&lang=en









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