SIEMENS

Data sheet

3RW4074-6BB45



SIRIUS soft starter S12 280 A, 200 kW/500 V, 40 °C 400-600 V AC, 230 V AC Screw terminals !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5074-6AB15<<

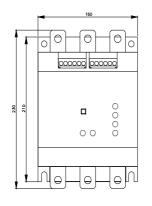
| General technical data | | |
|---|----|--------------------------|
| product brand name | | SIRIUS |
| • | | SIRIUS |
| product feature | | Ver |
| integrated bypass contact system | | Yes |
| • thyristors | | res |
| product function | | Vec |
| intrinsic device protection | | Yes |
| motor overload protection | | Yes |
| evaluation of thermistor motor protection | | No |
| • external reset | | Yes |
| adjustable current limitation | | Yes |
| inside-delta circuit | | No |
| product component motor brake output | | No |
| insulation voltage rated value | V | 600 |
| 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 | А | 280 |
| at 50 °C rated value | А | 248 |
| at 60 °C rated value | А | 215 |
| yielded mechanical performance for 3-phase motors | | |
| • at 400 V | | |
| — at standard circuit at 40 °C rated value | kW | 160 |
| • at 500 V | | |
| — at standard circuit at 40 °C rated value | kW | 200 |
| 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 | 400 600 |
| relative negative tolerance of the operating voltage at standard circuit | % | -15 |
| relative positive tolerance of the operating voltage at standard circuit | % | 10 |
| minimum load [%] | % | 20 |
| adjustable motor current for motor overload | A | 130 |
| protection minimum rated value | | |
| continuous operating current [% of le] at 40 °C | % | 115 |
| power loss [W] at operational current at 40 °C during operation typical | W | 90 |

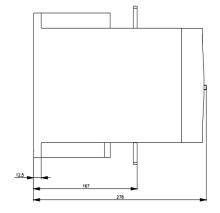
| Control circuit/ Control | | |
|--|-----|--|
| | | AC |
| type of voltage of the control supply voltage | 11- | AC 50 |
| control supply voltage frequency 1 rated value | Hz | 50 |
| control supply voltage frequency 2 rated value | Hz | 60 |
| relative negative tolerance of the control supply voltage 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 | | red |
| Mechanical data | | |
| size of engine control device | | S12 |
| width | mm | 160 |
| height | mm | 230 |
| depth | mm | 278 |
| fastening method | | screw fixing |
| mounting position | | With additional fan: With vertical mounting surface +/-90° |
| | | rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back Without additional fan: With vertical |
| | | mounting surface +/-10° rotatable, with vertical mounting |
| | | surface +/- 10° t |
| required spacing with side-by-side mounting | | |
| • upwards | mm | 100 |
| • at the side | mm | 5 |
| downwards | mm | 75 |
| wire length maximum | m | 300 |
| 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 | | 2 |
| 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 with core end processing finely stranded without core end processing | | 70 240 mm ² |
| stranded | | 95 300 mm ² |
| type of connectable conductor cross-sections for main contacts for box terminal using the back | | |
| clamping point | | 100 105 3 |
| finely stranded with core end processing | | 120 185 mm ² |
| finely stranded without core end processing | | 120 185 mm ² |
| • stranded | | 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 mm ² , max. 2x 185 mm ² |
| finely stranded with one one processing finely stranded without core end processing | | min. $2x 50 \text{ mm}^2$, max. $2x 185 \text{ mm}^2$ |
| stranded | | max. 2x 70 mm ² , max. 2x 240 mm ² |
| 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 |

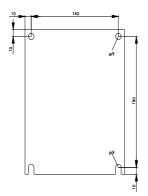
| using both clar type of connectable | mping points conductor cross-sect | ions for DIM | | min. 2x 2/0, n | nax. 2x 500 kcmil | | |
|--|---|--|--|-----------------------------|---|----------------------|--|
| cable lug for main c | | | | | | | |
| finely stranded | | | | 50 240 mm | 1 ² | | |
| stranded | | | | 70 240 mm | 1 ² | | |
| type of connectable | e conductor cross-sect | ions for | | | | | |
| auxiliary contacts | | | | | | | |
| solid | | | | | 2x (0.5 2.5 mm²) | | |
| finely stranded with core end processing type of connectable conductor cross-sections at AWG | | | 2x (0.5 1.5 | 2x (0.5 1.5 mm²) | | | |
| type of connectable cables | e conductor cross-sect | ions at AWG | | | | | |
| • for main contac | oto | | | 2/0 500 kg | mil | | |
| for auxiliary contacts | | | | 2/0 500 kcmil 2x (20 14) | | | |
| for auxiliary contacts finely stranded with core end | | | 2x (20 14) 2x (20 16) | | | | |
| processing | | | 2X (20 10) | 2x (20 10) | | | |
| Ambient conditions | | | | | | | |
| installation altitude | at height above sea le | vel | m | 5 000 | | | |
| environmental cate | | | | | | | |
| during transport according to IEC 60721 | | | | 2K2, 2C1, 2S | 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) | | |
| • | according to IEC 60721 | | | | asional condensation), 1 | , | |
| | - | | | 1S2 (sand mi | ust not get inside the dev | vices), 1M4 | |
| during operation | on according to IEC 6072 | 21 | | | ation of ice, no condensa | | |
| ambient torrest | | | | mist), 3S2 (sa | and must not get into the | devices), 3106 | |
| ambient temperatur | | | °C | 25 100 | | | |
| during operation during storage | | | С° С | -25 +60 -40 +80 | | | |
| during storage derating temperature | | | ວ° | -40 +80 40 | | | |
| | on the front according | to IEC | C | IP00; IP20 wi | th cover | | |
| 60529 | on the nont according | | | 11 00, 11 20 Wi | | | |
| touch protection on | the front according to | IEC 60529 | | finger-safe, fo | or vertical contact from th | ne front with cover | |
| Certificates/ approva | ls | | | | | | |
| General Product A | | | | | | EMC | |
| | P.P | | | | | | |
| | Confirmation | | | | | - | |
| | Commation | |) | Ű | EHC | RCM | |
| Declaration of Conformity | Test Certificates | CCC | oping | U. | ERC other | RCM | |
| | | Marine / Ship | oping | | ERF other <u>Confirmation</u> | RCM | |
| Conformity CE EG-Konf. | Test Certificates | Lloyds Register | pping | | | RCM | |
| Conformity CEG-Konf. UL/CSA ratings | Test Certificates Special Test Certific- ate | Lloyds Register uts | oping | | | RCM | |
| Conformity CEG-Konf. UL/CSA ratings yielded mechanical | Test Certificates | Lloyds Register uts | oping | | | RCM | |
| Conformity CEG-Konf. UL/CSA ratings yielded mechanical motor | Test Certificates Special Test Certific- ate | Lloyds Register uts | pping | | | RCM | |
| Conformity EG-Konf. UL/CSA ratings yielded mechanical motor • at 460/480 V | Test Certificates Special Test Certific- ate | Llovds Register uks | | | | RCM | |
| Conformity EG-Konf. UL/CSA ratings yielded mechanical motor • at 460/480 V | Test Certificates Special Test Certificates ate performance [hp] for 3 | Llovds Register uks | p ping | | | RCM | |
| Conformity Conformity Conformity EG-Konf. UL/CSA ratings yielded mechanical motor • at 460/480 V — at standar • at 575/600 V | Test Certificates Special Test Certificates ate performance [hp] for 3 | Llovds Register uts | | | | RCM | |
| Conformity Conformity Conformity Conformity EG-Konf. UL/CSA ratings yielded mechanical motor • at 460/480 V — at standar • at 575/600 V — at standar | Test Certificates Special Test Certific- ate performance [hp] for 3 | Joyds Register uts 3-phase AC value value | hp | | | RCM | |
| Conformity Conformity Conformity Conformity EG-Konf. UL/CSA ratings yielded mechanical motor • at 460/480 V — at standar • at 575/600 V — at standar | Test Certificates Special Test Certificates Special Test Certificates ate performance [hp] for 3 rd circuit at 50 °C rated v rd circuit at 50 °C rated v | Joyds Register uts 3-phase AC value value | hp | 250 | | | |
| Conformity Conformity Conformity Conformity UL/CSA ratings yielded mechanical motor • at 460/480 V — at standar • at 575/600 V — at standar contact rating of au Further information Simulation Tool for | Test Certificates Special Test Certific- ate performance [hp] for 3 rd circuit at 50 °C rated w | 3-phase AC value ding to UL | hp | 250 | | | |
| Conformity Conformity Conformity Conformity Conformity EG-Konf. UL/CSA ratings yielded mechanical motor • at 460/480 V — at standar • at 575/600 V — at standar contact rating of au Further information Simulation Tool for https://support.indust | Test Certificates Special Test Certific- ate performance [hp] for 3 rd circuit at 50 °C rated v rd circuit at 50 °C rated v rxiliary contacts accord Soft Starters (STS) try.siemens.com/cs/ww/e | 3-phase AC value ding to UL | hp | 250 | | | |
| Conformity Conformity Conformity Conformity UL/CSA ratings yielded mechanical motor • at 460/480 V — at standar • at 575/600 V — at standar contact rating of au Further information Simulation Tool for https://support.indust Information on the | Test Certificates Special Test Certific- ate performance [hp] for 3 rd circuit at 50 °C rated w | A-phase AC value value ding to UL | hp hp hp | 250 | | | |
| Conformity Conformity Conformity Conformity UL/CSA ratings yielded mechanical motor • at 460/480 V — at standar • at 575/600 V — at standar contact rating of au Further information Simulation Tool for https://support.indust Information on the p https://support.indust | Test Certificates Special Test Certific- ate performance [hp] for 3 rd circuit at 50 °C rated v rd circuit at 50 ° | A-phase AC value ding to UL | hp hp <u>hp</u> <u>917</u> | 250 | | | |
| Conformity Conformity Conformity Conformity UL/CSA ratings yielded mechanical motor • at 460/480 V — at standar • at 575/600 V — at standar contact rating of au Further information Simulation Tool for https://support.indust Information on the p https://support.indust | Test Certificates Special Test Certificates Special Test Certificates ate performance [hp] for 3 rd circuit at 50 °C rated w | A-phase AC value ding to UL | hp hp <u>hp</u> <u>917</u> | 250 | | | |
| Conformity Confor | Test Certificates Special Test Certific- ate performance [hp] for 3 rd circuit at 50 °C rated w | A-phase AC value ding to UL en/view/101494s gs, Brochures, | hp hp <u>17</u> <u>375</u>) | 250 B300 / R300 | | | |
| Conformity Conformity Conformity Conformity Conformity UL/CSA ratings yielded mechanical motor • at 460/480 V — at standar • at 575/600 V — at standar contact rating of au Further information Simulation Tool for https://support.indust Information on the p https://support.indust Information- and Do https://www.siemens Industry Mall (Onlin | Test Certificates Special Test Certific- ate performance [hp] for 3 rd circuit at 50 °C rated w rd circuit at 50 ° | A-phase AC value ding to UL en/view/101494s gs, Brochures, | hp hp <u>17</u> <u>375</u>) | 250 B300 / R300 | | | |
| Conformity Conformity Conformity Conformity Conformity UL/CSA ratings yielded mechanical motor • at 460/480 V — at standar • at 575/600 V — at standar contact rating of au Further information Simulation Tool for https://support.indust Information on the p https://support.indust Information- and Do https://www.siemens Industry Mall (Onlin | Test Certificates Special Test Certific- ate performance [hp] for 3 rd circuit at 50 °C rated w | A-phase AC value ding to UL en/view/101494s gs, Brochures, | hp hp <u>17</u> <u>375</u>) | 250 B300 / R300 | Confirmation | kange without notice | |

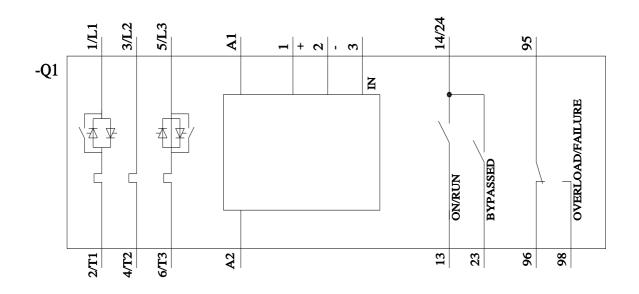
Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4074-6BB45 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RW4074-6BB45 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4074-6BB45&lang=en









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