## SIEMENS

## Data sheet

## 3RW4076-6BB44



SIRIUS soft starter S12 432 A, 250 kW/400 V, 40 °C 200-460 V AC, 230 V AC Screw terminals !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5076-6AB14<<

| Conoral tochnical data   |    |                          |
|--|----|--------------------------|
| General technical data   |    |                          |
| product brand name   |    | SIRIUS                   |
| product feature  |    | Vec                      |
| <ul> <li>integrated bypass contact system</li> </ul>   |    | Yes                      |
| thyristors   |    | Yes                      |
| product function   |    |                          |
| intrinsic device protection  |    | Yes                      |
| <ul> <li>motor overload protection</li> </ul>  |    | Yes                      |
| <ul> <li>evaluation of thermistor motor protection</li> </ul>  |    | No                       |
| external reset   |    | Yes                      |
| <ul> <li>adjustable current limitation</li> </ul>  |    | Yes                      |
| <ul> <li>inside-delta circuit</li> </ul>   |    | 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<br>according to IEC 204-2 according to IEC 750                        |    | G                        |
| Power Electronics  |    |                          |
| product designation  |    | Soft starter             |
| operational current  |    |                          |
| • at 40 °C rated value   | А  | 432                      |
| • at 50 °C rated value   | А  | 385                      |
| <ul> <li>at 60 °C rated value</li> </ul>   | А  | 335                      |
| yielded mechanical performance for 3-phase motors  |    |                          |
| • at 230 V   |    |                          |
| <ul> <li>— at standard circuit at 40 °C rated value</li> </ul>   | kW | 132                      |
| ● at 400 V   |    |                          |
| <ul> <li>— at standard circuit at 40 °C rated value</li> </ul>   | kW | 250                      |
| yielded mechanical performance [hp] for 3-phase AC<br>motor at 200/208 V at standard circuit at 50 °C rated<br>value | hp | 125                      |
| 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  | 200 460                  |
| 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 protection minimum rated value   | А  | 207                      |

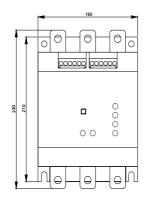
| continuous operating current [% of le] at 40 °C  | %   | 115  |
|--|-----|--|
| power loss [W] at operational current at 40 °C during  | W   | 165  |
| operation typical  |     |  |
| Control circuit/ Control   |     |  |
| type of voltage of the control supply voltage  |     | AC   |
| control supply voltage frequency 1 rated value   | Hz  | 50   |
| control supply voltage frequency 2 rated value   | Hz  | 60   |
| relative negative tolerance of the control supply  | %   | -10  |
| voltage frequency  | 24  |  |
| relative positive tolerance of the control supply<br>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  | %   | -15  |
| voltage at AC at 50 Hz   | ,,, |  |
| 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 $+/-10^{\circ}$ rotatable, with vertical mounting surface $+/-10^{\circ}$ 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  |     |  |
| <ul> <li>for main current circuit</li> </ul>   |     | busbar connection  |
| <ul> <li>for auxiliary and control circuit</li> </ul>  |     | 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<br>main contacts for box terminal using the front<br>clamping point |     |  |
| <ul> <li>finely stranded with core end processing</li> </ul>   |     | 70 240 mm²   |
| <ul> <li>finely stranded with core end processing</li> </ul>   |     | 70 240 mm <sup>2</sup>   |
| • stranded   |     | 95 300 mm <sup>2</sup>   |
| type of connectable conductor cross-sections for<br>main contacts for box terminal using the back                    |     |  |
| <ul> <li>clamping point</li> <li>finely stranded with core end processing</li> </ul>                                 |     | 120 185 mm²  |
| <ul> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> </ul>    |     | 120 185 mm <sup>2</sup>  |
| stranded   |     | 120 240 mm <sup>2</sup>  |
| • stranged<br>type of connectable conductor cross-sections for<br>main contacts for box terminal using both clamping |     |  |
| points   |     |  |
| <ul> <li>finely stranded with core end processing</li> </ul>   |     | min. 2x 50 mm², max. 2x 185 mm²  |
| <ul> <li>finely stranded without core end processing</li> </ul>  |     | min. 2x 50 mm², max. 2x 185 mm²  |
| • stranded   |     | max. 2x 70 mm <sup>2</sup> , max. 2x 240 mm <sup>2</sup>   |
| type of connectable conductor cross-sections at AWG  |     |  |
| cables for main contacts for box terminal  |     |  |

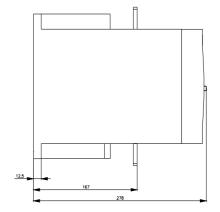
| <ul> <li>using the front</li> <li>using both clar</li> <li>type of connectable</li> <li>cable lug for main of</li> <li>finely stranded</li> <li>stranded</li> <li>type of connectable</li> <li>auxiliary contacts</li> <li>solid</li> <li>finely stranded</li> <li>type of connectable</li> <li>cables</li> <li>for main contact</li> <li>for auxiliary contacts</li> </ul> | nping points<br>conductor cross-sect<br>contacts<br>conductor cross-sect<br>with core end processir<br>conductor cross-sect<br>cts  | tions for<br>ng<br>tions at AWG   |                  | 250 500 kc<br>3/0 600 kcr<br>min. 2x 2/0, m<br>50 240 mm<br>70 240 mm<br>2x (0.5 2.5<br>2x (0.5 1.5<br>2/0 500 kcr<br>2x (20 14)<br>2x (20 16) | nil<br>nax. 2x 500 kcmil<br><sup>2</sup><br><sup>2</sup><br>mm²)<br>mm²)  |   |
|---|---|---|------------------|--|---|---|
|   | at height above sea le  | vel   | m                | 5 000  |   |   |
| environmental cates<br>• during transpose<br>• during storage   | gory<br>rt according to IEC 6072<br>according to IEC 60721<br>on according to IEC 6072<br>re  | 1   | m<br>C<br>C<br>C | 2K2, 2C1, 2S<br>1K6 (only occ<br>1S2 (sand mu<br>3K6 (no forma   | 1, 2M2 (max. fall heig<br>asional condensation)<br>ist not get inside the d<br>ation of ice, no conder<br>ind must not get into t | ), 1C2 (no salt mist),<br>levices), 1M4<br>nsation), 3C3 (no salt |
|   | on the front according  | to IEC  | Ū.               | IP00; IP20 wit   | th cover  |   |
| 60529   |   |   |                  |  |   |   |
| -   | the front according to  | DIEC 60529  |                  | finger-safe, fo  | r vertical contact from   | the front with cover  |
| Certificates/ approva   |   |   | _                |  |   |   |
| General Product A   | pproval   |   |                  |  |   | EMC   |
|   |   |   |                  | -  |   | ^   |
| SP<br>M   | <u>Confirmation</u>   |   |                  | Ű  | EHC   | RCM   |
| Declaration of<br>Conformity  | Contirmation<br>Test Certificates   | Ccc   | ping             | Ψ  | other   | RCM   |
|   |   | Marine / Ship   | ping             |  | Confirmation  | RCM   |
| Conformity  | Test Certificates   | Marine / Ship   | ping             |  |   | RCM   |
| Conformity  | Test Certificates   | Marine / Ship   | ping             |  |   | RCM   |
| Conformity<br>Conformity<br>LCSA ratings<br>Vielded mechanical<br>motor   | Test Certificates   | Lloyds<br>Kegister<br>us  | ping             |  |   | RCM   |
| Conformity<br>Conformity<br>EG-Konf.<br>UL/CSA ratings<br>yielded mechanical<br>motor<br>• at 220/230 V   | Test Certificates<br>Special Test Certific-<br>ate  | Llovds<br>Register<br>uits  | ping             | UL<br>UL<br>150  |   | RCM   |
| Conformity<br>Conformity<br>EG-Konf.<br>UL/CSA ratings<br>yielded mechanical<br>motor<br>• at 220/230 V<br>— at standar<br>• at 460/480 V   | Test Certificates Special Test Certificates ate   | Llovds<br>LRS   |                  |  |   | RCM   |
| Conformity<br>Conformity<br>Conformity<br>Conformity<br>EG-Konf.<br>UL/CSA ratings<br>yielded mechanical<br>motor<br>• at 220/230 V<br>- at standar<br>• at 460/480 V<br>- at standar<br>contact rating of au   | Test Certificates Special Test Certificates ate performance [hp] for a  | Joyds<br>Urs<br>3-phase AC<br>value                                     | hp               | 150  |   |   |
| Conformity<br>Conformity<br>Conformity<br>Conformity<br>Conformity<br>UL/CSA ratings<br>yielded mechanical<br>motor<br>• at 220/230 V<br>at standar<br>• at 460/480 V<br>at standar<br>contact rating of au<br>Further information<br>Simulation Tool for<br>https://support.indust<br>Information- and Do<br>https://www.siemens<br>Industry Mall (Onlin                   | Test Certificates Special Test Certific-<br>ate performance [hp] for 3 rd circuit at 50 °C rated w rd circuit at 50 ° | A-phase AC<br>value<br>ding to UL<br>en/view/1014949<br>gs, Brochures,. | hp<br>hp<br>hp   | 150<br>300<br>B300 / R300  |   |   |
| Conformity<br>Conformity<br>Conformity<br>Conformity<br>Conformity<br>UL/CSA ratings<br>yielded mechanical<br>motor<br>• at 220/230 V<br>at standar<br>• at 460/480 V<br>at standar<br>contact rating of au<br>Further information<br>Simulation Tool for<br>https://support.indust<br>Information- and Do<br>https://www.siemens<br>Industry Mall (Onlin                   | Test Certificates         Special Test Certificates         Special Test Certificates         ate         performance [hp] for 3         rd circuit at 50 °C rated with the second secon   | A-phase AC<br>value<br>ding to UL<br>en/view/1014949<br>gs, Brochures,. | hp<br>hp<br>hp   | 150<br>300<br>B300 / R300  |   |   |

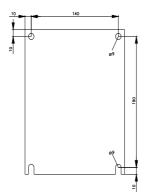
2/10/2023 **SIEMENS KALA** 

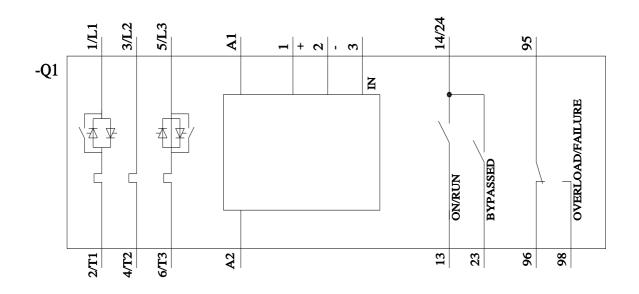
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