## **SIEMENS**

Data sheet 3RW3038-2BB04



SIRIUS soft starter S2 72 A, 37 kW/400 V, 40 °C 200-480 V AC, 24 V AC/DC spring-type terminals

| and death and death  |    | OIDILIO                  |
|--|----|--------------------------|
| product brand name   |    | SIRIUS                   |
| product feature  |    |                          |
| integrated bypass contact system   |    | Yes                      |
| thyristors   |    | Yes                      |
| product function   |    |                          |
| intrinsic device protection  |    | No                       |
| motor overload protection  |    | No                       |
| <ul> <li>evaluation of thermistor motor protection</li> </ul>  |    | No                       |
| external reset   |    | No                       |
| adjustable current limitation  |    | No                       |
| 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                        |
| ower Electronics   |    |                          |
| product designation  |    | Soft starter             |
| operational current  |    |                          |
| • at 40 °C rated value   | Α  | 72                       |
| at 50 °C rated value   | Α  | 62                       |
| • at 60 °C rated value   | Α  | 60                       |
| yielded mechanical performance for 3-phase motors  |    |                          |
| • at 230 V   |    |                          |
| <ul> <li>at standard circuit at 40 °C rated value</li> </ul>   | kW | 22                       |
| • at 400 V   |    |                          |
| <ul> <li>at standard circuit at 40 °C rated value</li> </ul>   | kW | 37                       |
| yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value | hp | 20                       |
| 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  | 200 480                  |
| relative negative tolerance of the operating voltage at standard circuit                                       | %  | -15                      |
| relative positive tolerance of the operating voltage at standard circuit                                       | %  | 10                       |
| minimum load [%]   | %  | 10                       |
| continuous operating current [% of le] at 40 °C  | %  | 115                      |

| nower loss [W] at operational current at 40 °C during  | W  | 15  |
|--|----|---|
| power loss [W] at operational current at 40 °C during<br>operation typical                                     | VV | 10  |
| Control circuit/ Control   |    |   |
| type of voltage of the control supply voltage  |    | AC/DC   |
| 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  | 24  |
| at 60 Hz rated value   | V  | 24  |
| relative negative tolerance of the control supply voltage at AC at 50 Hz                                       | %  | -10   |
| 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                                       | %  | -10   |
| relative positive tolerance of the control supply voltage at AC at 60 Hz                                       | %  | 10  |
| control supply voltage 1 at DC rated value   | V  | 24  |
| relative negative tolerance of the control supply voltage at DC  | %  | -10   |
| relative positive tolerance of the control supply voltage at DC  | %  | 10  |
| display version for fault signal   |    | red   |
| Mechanical data  |    | 00  |
| size of engine control device  |    | S2<br>  |
| width  | mm | 55  |
| height   | mm | 160   |
| depth  | mm | 170   |
| fastening method mounting position   |    | screw and snap-on mounting With vertical mounting surface +/-10° rotatable, with vertical |
| mounting position  |    | mounting surface +/- 10° tiltable to the front and back                                   |
| required spacing with side-by-side mounting  |    |   |
| • upwards  | mm | 60  |
| • at the side  | mm | 30  |
| downwards  | mm | 40  |
| wire length maximum  | m  | 300   |
| number of poles for main current circuit   |    | 3   |
| Connections/ Terminals   |    |   |
| type of electrical connection  |    |   |
| for main current circuit   |    | screw-type terminals  |
| for auxiliary and control circuit  |    | spring-loaded terminals   |
| number of NC contacts for auxiliary contacts   |    | 0   |
| number of NO contacts for auxiliary contacts   |    | 1   |
| number of CO contacts for auxiliary contacts   |    | 0   |
| type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point |    |   |
| solid  |    | 2x (1.5 16 mm²)   |
| finely stranded with core end processing   |    | 1.5 25 mm <sup>2</sup>  |
| stranded     stranded  |    | 1.5 25 mm <sup>2</sup>  |
| type of connectable conductor cross-sections for main  |    | 1.5 55 Hill   |
| contacts for box terminal using the back clamping point  |    | 0 (4.5 40 3)  |
| • solid  |    | 2x (1.5 16 mm²)   |
| finely stranded with core end processing   |    | 1.5 25 mm <sup>2</sup>  |
| stranded  type of connectable conductor cross-sections for main  |    | 1.5 35 mm²  |
| contacts for box terminal using both clamping points   |    | 0(4.540   |
| • solid  |    | 2x (1.5 16 mm²)   |
| <ul><li>finely stranded with core end processing</li><li>stranded</li></ul>                                    |    | 2x (1.5 16 mm²)<br>2x (1.5 25 mm²)  |
| type of connectable conductor cross-sections for AWG cables for main contacts for box terminal                 |    |   |

| <ul> <li>using the back clamping point</li> </ul>                   |    | 16 2  |
|---|----|---|
| <ul> <li>using the front clamping point</li> </ul>                  |    | 18 2  |
| using both clamping points  |    | 2x (16 2)   |
| type of connectable conductor cross-sections for auxiliary contacts |    |   |
| • solid   |    | 2x (0.25 2.5 mm²)   |
| <ul> <li>finely stranded with core end processing</li> </ul>        |    | 2x (0.25 1.5 mm²)   |
| type of connectable conductor cross-sections for AWG cables         |    |   |
| <ul> <li>for auxiliary contacts</li> </ul>                          |    | 2x (24 14)  |
| Ambient conditions  |    |   |
| installation altitude at height above sea level                     | m  | 5 000   |
| environmental category  |    |   |
| <ul> <li>during transport according to IEC 60721</li> </ul>         |    | 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)   |
| during storage according to IEC 60721                               |    | 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4       |
| during operation according 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   |    |   |
| <ul> <li>during operation</li> </ul>                                | °C | -25 +60   |
| during storage  | °C | -40 +80   |
| derating temperature  | °C | 40  |
| protection class IP on the front according to IEC 60529             |    | IP20  |
| touch protection on the front according to IEC 60529                |    | finger-safe, for vertical contact from the front  |
| UL/CSA ratings  |    |   |
| yielded mechanical performance [hp] for 3-phase AC motor            |    |   |
| • at 220/230 V  |    |   |
| <ul> <li>at standard circuit at 50 °C rated value</li> </ul>        | hp | 20  |
| • at 460/480 V  |    |   |
| <ul> <li>at standard circuit at 50 °C rated value</li> </ul>        | hp | 40  |
| contact rating of auxiliary contacts according to UL                |    | B300 / R300   |
| Approvals Certificates  |    |   |
|   |    |   |



**General Product Approval** 







**firmations** 

Confirmation



General Product Approval EMV Test Certificates other





<u>ate</u>

KC Special Test Certificate

Type Test Certificates/Test Report

**Miscellaneous** 

 other
 Railway
 Environment

 Confirmation
 Special Test Certific Confirmation
 Environmental Con

## Further information

Simulation Tool for Soft Starters (STS)

https://support.industry.siemens.com/cs/ww/en/view/101494917

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

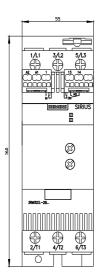
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW3038-2BB04

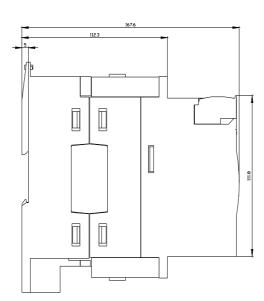
## Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW3038-2BB04

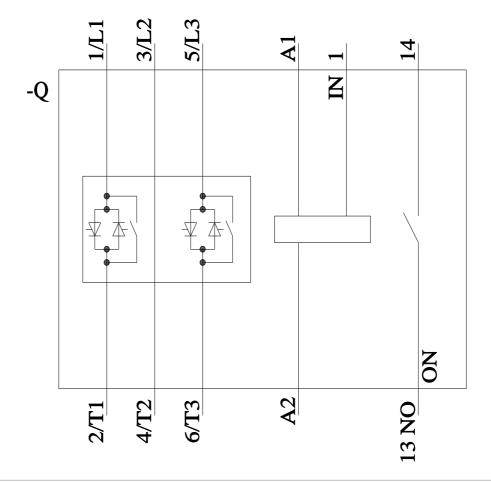
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RW3038-2BB04

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW3038-2BB04&lang=en">http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW3038-2BB04&lang=en</a>









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