



SIRIUS soft starter S2 63 A, 30 kW/400 V, 40 °C 200-480 V AC, 24 V AC/DC Screw terminals

| General technical data   |             |                                      |
|--|-------------|--------------------------------------|
| product brand name   |             | SIRIUS                               |
| product feature  |             |                                      |
| <ul style="list-style-type: none"> <li>integrated bypass contact system</li> <li>thyristors</li> </ul>   |             | Yes<br>Yes                           |
| product function   |             |                                      |
| <ul style="list-style-type: none"> <li>intrinsic device protection</li> <li>motor overload protection</li> <li>evaluation of thermistor motor protection</li> <li>external reset</li> <li>adjustable current limitation</li> <li>inside-delta circuit</li> </ul>   |             | Yes<br>Yes<br>No<br>Yes<br>Yes<br>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 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  |             |                                      |
| <ul style="list-style-type: none"> <li>at 40 °C rated value</li> <li>at 50 °C rated value</li> <li>at 60 °C rated value</li> </ul>   | A<br>A<br>A | 63<br>58<br>53                       |
| yielded mechanical performance for 3-phase motors  |             |                                      |
| <ul style="list-style-type: none"> <li>at 230 V                             <ul style="list-style-type: none"> <li>at standard circuit at 40 °C rated value</li> </ul> </li> <li>at 400 V                             <ul style="list-style-type: none"> <li>at standard circuit at 40 °C rated value</li> </ul> </li> </ul> | W<br>W      | 18 500<br>30 000                     |
| yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value   | hp          | 15                                   |
| 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  | %           | 10                                   |

|  |    |   |
|--|----|---|
| standard circuit   |    |   |
| minimum load [%]   | %  | 20  |
| adjustable motor current for motor overload protection minimum rated value                                     | A  | 26  |
| continuous operating current [% of I <sub>e</sub> ] at 40 °C   | %  | 115   |
| power loss [W] at operational current at 40 °C during operation typical  | W  | 12  |
| <b>Control circuit/ Control</b>  |    |   |
| 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                                       | %  | -20   |
| relative positive tolerance of the control supply voltage at AC at 50 Hz                                       | %  | 20  |
| relative negative tolerance of the control supply voltage at AC at 60 Hz                                       | %  | -20   |
| relative positive tolerance of the control supply voltage at AC at 60 Hz                                       | %  | 20  |
| control supply voltage 1 at DC rated value   | V  | 24  |
| relative negative tolerance of the control supply voltage at DC  | %  | -20   |
| relative positive tolerance of the control supply voltage at DC  | %  | 20  |
| display version for fault signal   |    | red   |
| <b>Mechanical data</b>   |    |   |
| size of engine control device  |    | S2  |
| width  | mm | 55  |
| height   | mm | 160   |
| depth  | mm | 170   |
| fastening method   |    | screw and snap-on mounting  |
| 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 | 60  |
| • at the side  | mm | 30  |
| • downwards  | mm | 40  |
| wire length maximum  | m  | 300   |
| number of poles for main current circuit   |    | 3   |
| <b>Connections/ Terminals</b>  |    |   |
| type of electrical connection  |    |   |
| • for main current circuit   |    | screw-type terminals  |
| • 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 |    |   |
| • solid  |    | 2x (1.5 ... 16 mm <sup>2</sup> )  |
| • finely stranded with core end processing   |    | 0.75 ... 25 mm <sup>2</sup>   |
| • stranded   |    | 0.75 ... 35 mm <sup>2</sup>   |

|  |  |  |
|--|--|--|
| <b>type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point</b> <ul style="list-style-type: none"> <li>• solid</li> <li>• finely stranded with core end processing</li> <li>• stranded</li> </ul>                 |  | 2x (1.5 ... 16 mm <sup>2</sup> )<br>1.5 ... 25 mm <sup>2</sup><br>1.5 ... 35 mm <sup>2</sup>             |
| <b>type of connectable conductor cross-sections for main contacts for box terminal using both clamping points</b> <ul style="list-style-type: none"> <li>• solid</li> <li>• finely stranded with core end processing</li> <li>• stranded</li> </ul>                    |  | 2x (1.5 ... 16 mm <sup>2</sup> )<br>2x (1.5 ... 16 mm <sup>2</sup> )<br>2x (1.5 ... 25 mm <sup>2</sup> ) |
| <b>type of connectable conductor cross-sections at AWG cables for main contacts for box terminal</b> <ul style="list-style-type: none"> <li>• using the back clamping point</li> <li>• using the front clamping point</li> <li>• using both clamping points</li> </ul> |  | 16 ... 2<br>18 ... 2<br>2x (16 ... 2)  |
| <b>type of connectable conductor cross-sections for auxiliary contacts</b> <ul style="list-style-type: none"> <li>• solid</li> <li>• finely stranded with core end processing</li> </ul>   |  | 2x (0.5 ... 2.5 mm <sup>2</sup> )<br>2x (0.5 ... 1.5 mm <sup>2</sup> )                                   |
| <b>type of connectable conductor cross-sections at AWG cables</b> <ul style="list-style-type: none"> <li>• for auxiliary contacts</li> <li>• for auxiliary contacts finely stranded with core end processing</li> </ul>  |  | 2x (20 ... 14)<br>2x (20 ... 16)   |

| Ambient conditions   |    |   |
|--|----|---|
| <b>installation altitude at height above sea level</b>   | m  | 5 000   |
| <b>environmental category</b> <ul style="list-style-type: none"> <li>• during transport acc. to IEC 60721</li> <li>• during storage acc. to IEC 60721</li> <li>• during operation acc. to IEC 60721</li> </ul> |    | 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)<br>1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4<br>3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 |
| <b>ambient temperature</b> <ul style="list-style-type: none"> <li>• during operation</li> <li>• during storage</li> </ul>  | °C | -25 ... +60   |
|  | °C | -40 ... +80   |
| <b>derating temperature</b>  | °C | 40  |
| <b>protection class IP on the front acc. to IEC 60529</b>  |    | IP20  |
| <b>touch protection on the front acc. to IEC 60529</b>   |    | finger-safe, for vertical contact from the front  |

| Certificates/ approvals  |     |                                |
|--------------------------|-----|--------------------------------|
| General Product Approval | EMC | For use in hazardous locations |



| Declaration of Conformity | Test Certificates | Marine / Shipping |
|---------------------------|-------------------|-------------------|
|---------------------------|-------------------|-------------------|



[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)



|       |         |
|-------|---------|
| other | Railway |
|-------|---------|

**UL/CSA ratings**

|  |                |             |
|--|----------------|-------------|
| yielded mechanical performance [hp] for 3-phase AC motor |                |             |
|  | • at 220/230 V |             |
| — at standard circuit at 50 °C rated value               | hp             | 20          |
| • at 460/480 V   |                |             |
| — at standard circuit at 50 °C rated value               | hp             | 40          |
| 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=3RW4037-1BB04>

**Cax online generator**

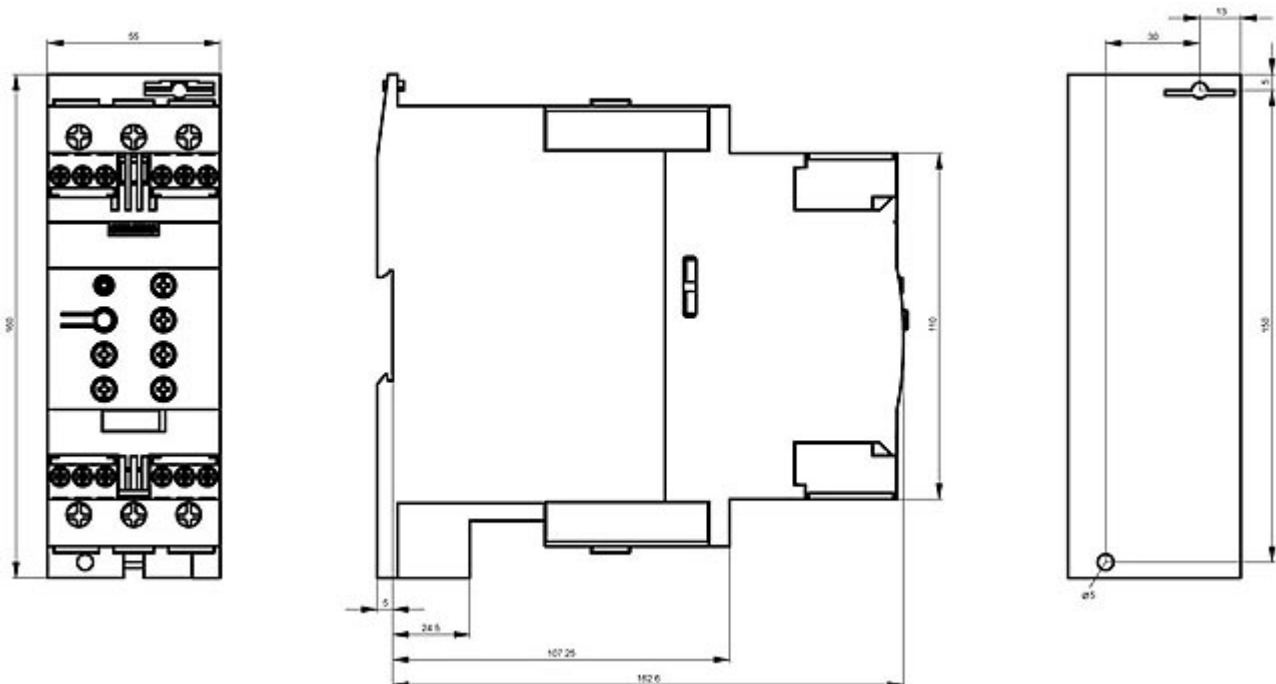
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4037-1BB04>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RW4037-1BB04>

**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)**

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RW4037-1BB04&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4037-1BB04&lang=en)





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