



SIRIUS soft starter Values at 460 V, 50 °C standard: 68 A, 50 hp Inside-delta: 118 A, 75 hp 200-460 V AC, 115 V AC Screw terminals !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5526-1HA14<<

| 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   | A  | 77                       |
| • at 50 °C rated value   | A  | 68                       |
| • at 60 °C rated value   | A  | 59                       |
| operational current for 3-phase motors at inside-delta circuit   |    |                          |
| • at 40 °C rated value   | A  | 133                      |
| • at 50 °C rated value   | A  | 118                      |
| • at 60 °C rated value   | A  | 102                      |
| yielded mechanical performance for 3-phase motors  |    |                          |
| • at 230 V   |    |                          |
| — at standard circuit at 40 °C rated value   | W  | 18 500                   |
| — at inside-delta circuit at 40 °C rated value   | W  | 37 000                   |
| • at 400 V   |    |                          |
| — at standard circuit at 40 °C rated value   | W  | 37 000                   |
| — at inside-delta circuit at 40 °C rated value   | W  | 75 000                   |
| 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 ... 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                      | A  | 15   |
| 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  | 45   |
| <b>Control circuit/ Control</b>   |    |  |
| 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  | 115  |
| • at 60 Hz rated value  | V  | 115  |
| 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  |
| <b>Mechanical data</b>  |    |  |
| width   | mm | 170  |
| height  | mm | 192  |
| depth   | mm | 270  |
| 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  |
| <b>Connections/ Terminals</b>   |    |  |
| type of electrical connection   |    |  |
| • for main current circuit  |    | box terminal   |
| • for auxiliary and control circuit   |    | screw-type 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 main contacts for box terminal using the front |    |  |

|   |    |   |
|---|----|---|
| <b>clamping point</b> <ul style="list-style-type: none"> <li>• solid</li> <li>• finely stranded with core end processing</li> <li>• finely stranded without core end processing</li> <li>• stranded</li> </ul>  |    | 2.5 ... 16 mm <sup>2</sup><br>2.5 ... 35 mm <sup>2</sup><br>4 ... 50 mm <sup>2</sup><br>4 ... 70 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>• finely stranded without core end processing</li> <li>• stranded</li> </ul> |    | 2,5 ... 16 mm <sup>2</sup><br>2.5 ... 50 mm <sup>2</sup><br>10 ... 50 mm <sup>2</sup><br>10 ... 70 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>• finely stranded without core end processing</li> <li>• stranded</li> </ul>    |    | 2x (2.5 ... 16 mm <sup>2</sup> )<br>2x (2.5 ... 35 mm <sup>2</sup> )<br>2x (4 ... 35 mm <sup>2</sup> )<br>2x (4 ... 50 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>  |    | 10 ... 2/0<br>10 ... 2/0<br>2x (10 ... 1/0)   |
| <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)  |
| <b>Ambient conditions</b>   |    |   |
| <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 | 60  |
|   | °C | -25 ... +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  |
| <b>Certificates/ approvals</b>  |    |   |
| General Product Approval  |    | EMC<br>Declaration of Conformity  |



Test Certificates

Marine / Shipping

Marine / Shipping

other

[Confirmation](#)

## 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
- at 220/230 V
  - at standard circuit at 50 °C rated value
  - at inside-delta circuit at 50 °C rated value
- at 460/480 V
  - at standard circuit at 50 °C rated value
  - at inside-delta circuit at 50 °C rated value

hp 30

hp 20

hp 40

hp 50

hp 75

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=3RW4426-1BC34>

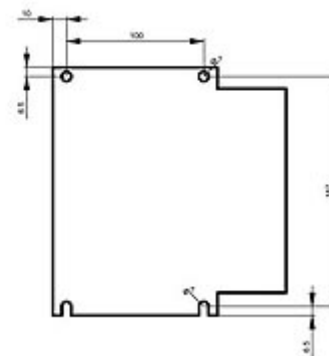
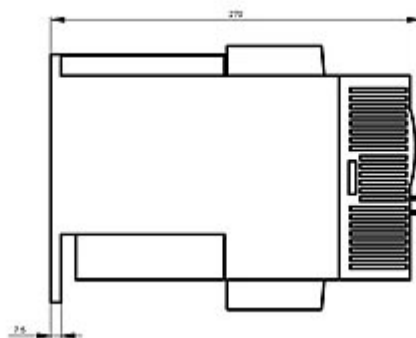
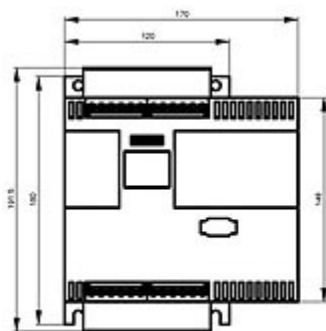
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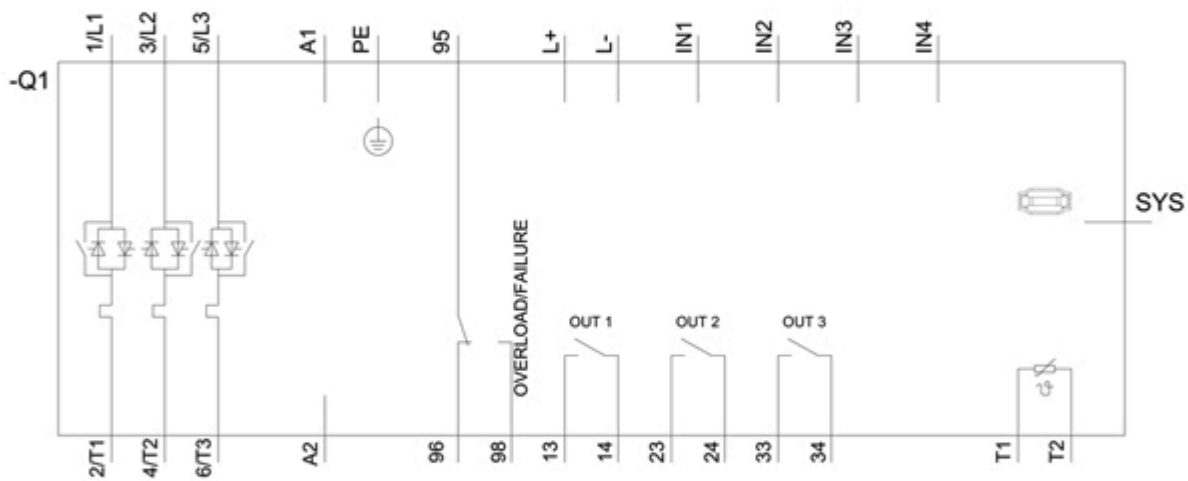
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4426-1BC34>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RW4426-1BC34>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RW4426-1BC34&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4426-1BC34&lang=en)



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