

SIRIUS SOFT STARTER, SIZE S00, 6.5A, 3KW/400V,  
40 DEGREES, 200-480V AC, 110-230V AC/DC,  
SCREW TERMINALS



| General technical data                                                                             |  |              |
|----------------------------------------------------------------------------------------------------|--|--------------|
| product brandname                                                                                  |  | SIRIUS       |
| <ul style="list-style-type: none"><li>Product equipment Integrated bypass contact system</li></ul> |  | Yes          |
| <ul style="list-style-type: none"><li>Product feature Thyristors</li></ul>                         |  | Yes          |
| Product function                                                                                   |  |              |
| <ul style="list-style-type: none"><li>Intrinsic device protection</li></ul>                        |  | No           |
| <ul style="list-style-type: none"><li>motor overload protection</li></ul>                          |  | No           |
| <ul style="list-style-type: none"><li>Evaluation of thermistor motor protection</li></ul>          |  | No           |
| <ul style="list-style-type: none"><li>External reset</li></ul>                                     |  | No           |
| <ul style="list-style-type: none"><li>Adjustable current limitation</li></ul>                      |  | No           |
| <ul style="list-style-type: none"><li>Inside-delta circuit</li></ul>                               |  | No           |
| Product component Motor brake output                                                               |  | No           |
| Equipment marking acc. to DIN EN 61346-2                                                           |  | Q            |
| Equipment marking acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750                |  | G            |
| Power Electronics                                                                                  |  |              |
| Product designation                                                                                |  | Soft starter |

|                                                                                                                           |    |             |
|---------------------------------------------------------------------------------------------------------------------------|----|-------------|
| <b>Operating current</b>                                                                                                  |    |             |
| • at 40 °C rated value                                                                                                    | A  | 6.5         |
| • at 50 °C rated value                                                                                                    | A  | 6           |
| • at 60 °C rated value                                                                                                    | A  | 5.5         |
| <b>Mechanical power output for three-phase motors</b>                                                                     |    |             |
| • at 230 V                                                                                                                |    |             |
| — at standard circuit at 40 °C rated value                                                                                | W  | 1 500       |
| • at 400 V                                                                                                                |    |             |
| — at standard circuit at 40 °C rated value                                                                                | W  | 3 000       |
| <b>Yielded mechanical performance [hp] for three-phase AC motor at 200/208 V at standard circuit at 50 °C rated value</b> | hp | 1           |
| <b>Operating frequency rated value</b>                                                                                    | Hz | 50 ... 60   |
| <b>Relative negative tolerance of the operating frequency</b>                                                             | %  | -10         |
| <b>Relative positive tolerance of the operating frequency</b>                                                             | %  | 10          |
| <b>Operating voltage at standard circuit rated value</b>                                                                  | V  | 200 ... 480 |
| <b>Relative negative tolerance of the operating voltage at standard circuit</b>                                           | %  | -15         |
| <b>Relative positive tolerance of the operating voltage at standard circuit</b>                                           | %  | 10          |
| <b>Minimum load [% of IM]</b>                                                                                             | %  | 10          |
| <b>Continuous operating current [% of I<sub>e</sub>] at 40 °C</b>                                                         | %  | 115         |
| <b>Power loss [W] at operating current at 40 °C during operation typical</b>                                              | W  | 0.5         |

| Control electronics                                                             |    |             |
|---------------------------------------------------------------------------------|----|-------------|
| <b>Type of voltage of the control supply voltage</b>                            |    | AC/DC       |
| <b>Control supply voltage frequency 1 rated value</b>                           | Hz | 50          |
| <b>Control supply voltage frequency 2 rated value</b>                           | Hz | 60          |
| <b>Relative negative tolerance of the control supply voltage frequency</b>      | %  | -10         |
| <b>Relative positive tolerance of the control supply voltage frequency</b>      | %  | 10          |
| <b>Control supply voltage 1 at AC at 50 Hz</b>                                  | V  | 110 ... 230 |
| <b>Control supply voltage 1 at AC at 60 Hz</b>                                  | V  | 110 ... 230 |
| <b>Relative negative tolerance of the control supply voltage at AC at 60 Hz</b> | %  | -20         |
| <b>Relative positive tolerance of the control supply voltage at AC at 60 Hz</b> | %  | 20          |
| <b>Control supply voltage 1 at DC</b>                                           | V  | 110 ... 230 |
| <b>Relative negative tolerance of the control supply voltage at DC</b>          | %  | -20         |
| <b>Relative positive tolerance of the control supply voltage at DC</b>          | %  | 20          |

|                                                                                                                |    |                                                                                                                        |
|----------------------------------------------------------------------------------------------------------------|----|------------------------------------------------------------------------------------------------------------------------|
| Display version for fault signal                                                                               |    | red                                                                                                                    |
| <b>Mechanical data</b>                                                                                         |    |                                                                                                                        |
| Size of engine control device                                                                                  |    | S00                                                                                                                    |
| Width                                                                                                          | mm | 45                                                                                                                     |
| Height                                                                                                         | mm | 95                                                                                                                     |
| Depth                                                                                                          | mm | 150                                                                                                                    |
| Mounting type                                                                                                  |    | screw and snap-on mounting                                                                                             |
| Mounting position                                                                                              |    | With vertical mounting surface +/-10° rotatable, with vertical mounting surface +/- 10° tiltable to the front and back |
| Required spacing with side-by-side mounting                                                                    |    |                                                                                                                        |
| • upwards                                                                                                      | mm | 60                                                                                                                     |
| • at the side                                                                                                  | mm | 15                                                                                                                     |
| • 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 current circuit                                                                    |    | screw-type 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 ... 2.5 mm²), 2x (2.5 ... 6 mm²)                                                                                 |
| • finely stranded with core end processing                                                                     |    | 2x (1 ... 2.5 mm²), 2x (2.5 ... 6 mm²)                                                                                 |
| Type of connectable conductor cross-sections at AWG conductors for main contacts for box terminal              |    |                                                                                                                        |
| • using the front clamping point                                                                               |    | 2x (16 ... 10)                                                                                                         |
| Type of connectable conductor cross-sections for auxiliary contacts                                            |    |                                                                                                                        |
| • solid                                                                                                        |    | 2x (0.25 ... 2.5 mm²)                                                                                                  |
| • finely stranded with core end processing                                                                     |    | 2x (0.25 ... 1.5 mm²)                                                                                                  |
| Type of connectable conductor cross-sections at AWG conductors                                                 |    |                                                                                                                        |
| • for auxiliary contacts                                                                                       |    | 2x (20 ... 14)                                                                                                         |
| • for auxiliary contacts finely stranded with core end processing                                              |    | 2x (20 ... 16)                                                                                                         |
| <b>Ambient conditions</b>                                                                                      |    |                                                                                                                        |
| Installation altitude at height above sea level                                                                | m  | 5 000                                                                                                                  |
| Environmental category                                                                                         |    |                                                                                                                        |

|                                      |    |                                                                                                               |
|--------------------------------------|----|---------------------------------------------------------------------------------------------------------------|
| • during transport acc. to IEC 60721 |    | 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 |
| • during storage acc. to IEC 60721   |    | 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 |
| • during operation acc. to IEC 60721 |    | 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 |
| <b>Ambient temperature</b>           |    |                                                                                                               |
| • during operation                   | °C | -25 ... +60                                                                                                   |
| • during storage                     | °C | -40 ... +80                                                                                                   |
| <b>Derating temperature</b>          | °C | 40                                                                                                            |
| <b>Protection class IP</b>           |    | IP20                                                                                                          |

#### Certificates/approvals

| General Product Approval                                                          |                                                                                   |                                                                                   | EMC                                                                               | Declaration of Conformity                                                           |                                                                                     |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |  |  |  |  |
| CCC                                                                               | CSA                                                                               | UL                                                                                |                                                                                   | C-Tick                                                                              | EG-Konf.                                                                            |

| Test Certificates                                  | other                         |                                             |                              |  |
|----------------------------------------------------|-------------------------------|---------------------------------------------|------------------------------|--|
| <a href="#">Type Test Certificates/Test Report</a> | <a href="#">Miscellaneous</a> | <a href="#">Environmental Confirmations</a> | <a href="#">Confirmation</a> |  |

#### UL/CSA ratings

|                                                                     |    |             |
|---------------------------------------------------------------------|----|-------------|
| <b>Yielded mechanical performance [hp] for three-phase AC motor</b> |    |             |
| • at 220/230 V                                                      |    |             |
| — at standard circuit at 50 °C rated value                          | hp | 1           |
| • at 460/480 V                                                      |    |             |
| — at standard circuit at 50 °C rated value                          | hp | 3           |
| <b>Contact rating of auxiliary contacts according to UL</b>         |    | 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,...)

<http://www.siemens.com/industrial-controls/catalogs>

##### Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW3014-1BB14>

**Cax online generator**

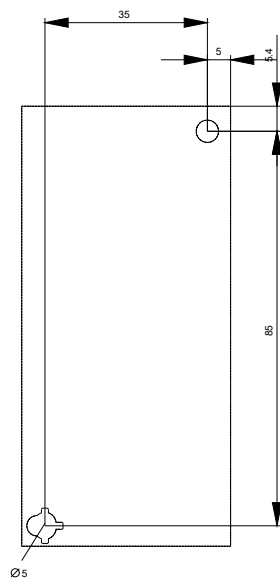
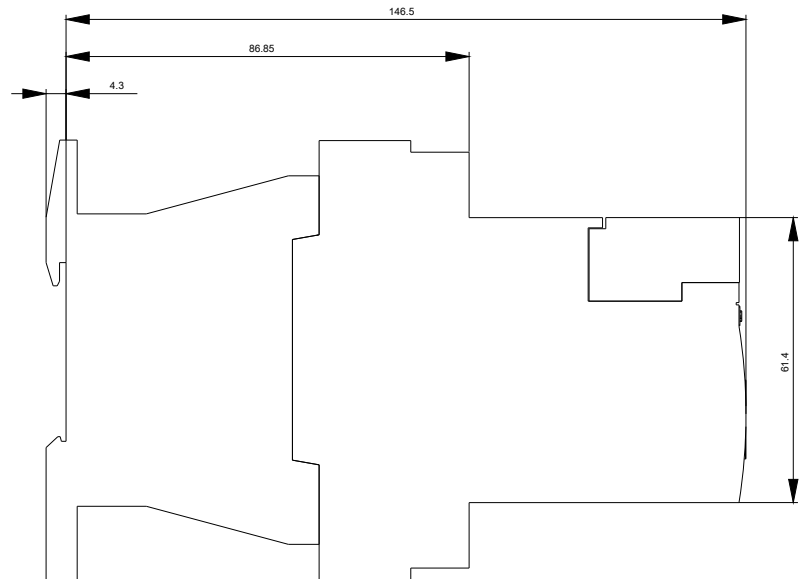
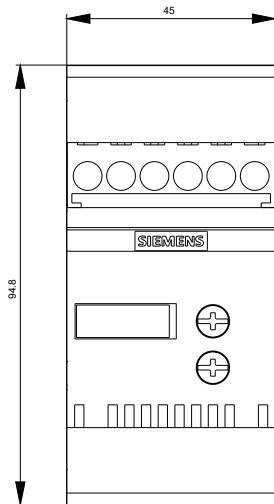
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW3014-1BB14>

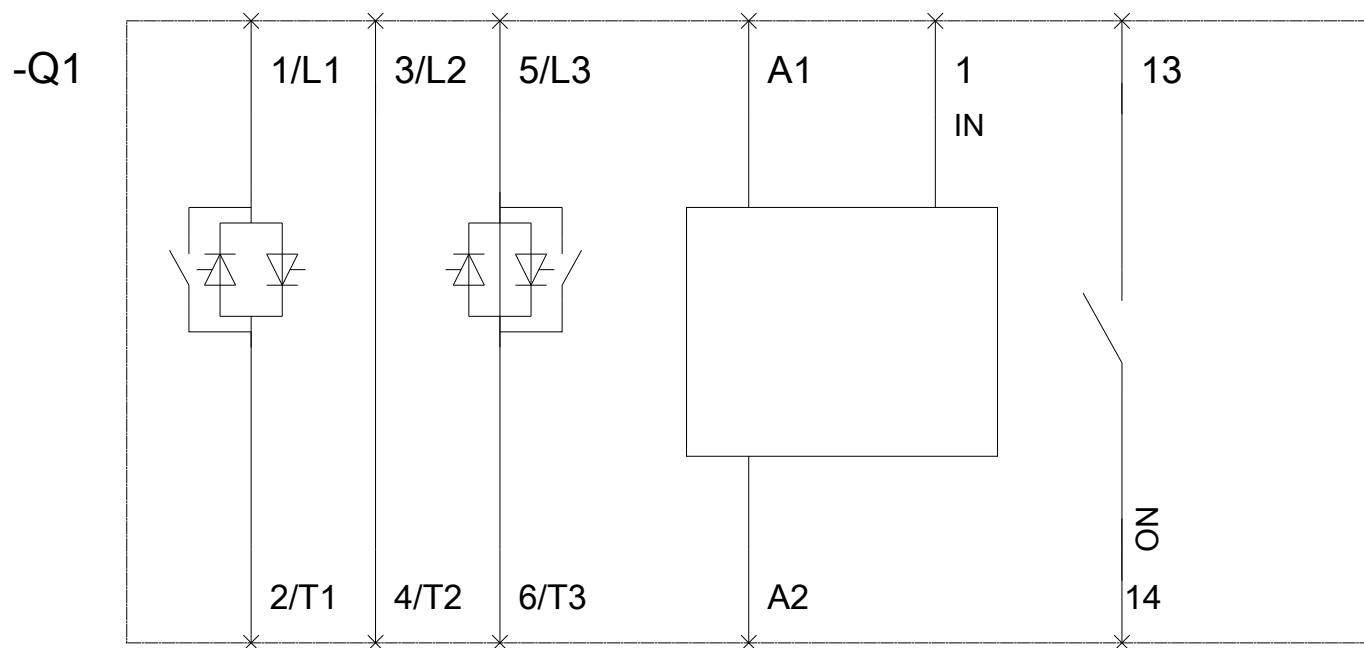
**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**

<https://support.industry.siemens.com/cs/ww/en/ps/3RW3014-1BB14>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RW3014-1BB14&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW3014-1BB14&lang=en)





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