



SIRIUS SOFT STARTER, SIZE S00, 6.5A,  
3KW/400V, 40 DEGREES, 200-480V AC,  
24V AC/DC, SCREW TERMINALS

### General details:

|  |  |        |
|--|--|--------|
| <b>product brand name</b>  |  | SIRIUS |
| <b>Product equipment</b>   |  |        |
| • integrated bridging contact system   |  | Yes    |
| • thyristors   |  | Yes    |
| <b>Product function</b>  |  |        |
| • intrinsic device protection  |  | No     |
| • motor overload protection  |  | No     |
| • evaluation of thermal resistor motor protection                                  |  | No     |
| • reset external   |  | No     |
| • adjustable current limitation  |  | No     |
| • inside-delta circuit   |  | No     |
| <b>Product component / outlet for enine brake</b>                                  |  | No     |
| <b>Reference code</b>  |  |        |
| • according to DIN EN 61346-2  |  | Q      |
| • according to DIN 40719 extended according to IEC 204-2 /<br>according to IEC 750 |  | G      |

### Power Electronics:

|                            |  |   |
|----------------------------|--|---|
| <b>Product designation</b> |  | soft starters for standard applications |
| Operating current          |  |   |

|   |    |             |
|---|----|-------------|
| • at 40 °C / rated value  | A  | 6.5         |
| • at 50 °C / rated value  | A  | 6           |
| • at 60 °C / rated value  | A  | 5.5         |
| <b>Emitted mechanical power / for three-phase servomotors</b>   |    |             |
| • at 230 V / at standard switching / at 40 °C   |    |             |
| • rated value   | W  | 1,500       |
| • at 400 V / at standard switching / at 40 °C   |    |             |
| • rated value   | W  | 3,000       |
| <b>yielded mechanical performance (hp) / for three-phase squirrel cage motors / at 200/208 V / at standard circuit / at 50 °C / rated value</b> | hp | 1           |
| <b>Operating frequency</b>  |    |             |
| • rated value   | 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 / with standard circuit / rated value</b>  | V  | 200 ... 480 |
| <b>Relative negative tolerance / of the operating voltage / with standard circuit</b>   | %  | -15         |
| <b>Relative positive tolerance / of the operating voltage / with standard circuit</b>   | %  | 10          |
| <b>Minimum load in % of I<sub>M</sub></b>   | %  | 10          |
| <b>Continuous operating current in % of I<sub>e</sub> / at 40°C</b>   | %  | 115         |
| <b>Active power loss / at operating current / at 40°C / during operating phase / typical</b>  | W  | 0.5         |

|  |    |       |
|--|----|-------|
| <b>Control electronics:</b>  |    |       |
| <b>Voltage type / of control feed 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</b>  |    |       |
| • at 50 Hz / for AC  | V  | 24    |
| • at 60 Hz / for AC  | V  | 24    |
| <b>Relative negative tolerance / of the control supply voltage / at 60 Hz / for AC</b> | %  | -20   |
| <b>Relative positive tolerance / of the control supply voltage / at 60 Hz / for AC</b> | %  | 20    |
| <b>Control supply voltage / 1 / for DC / rated value</b>                               | V  | 24    |
| <b>Relative negative tolerance / of the control supply voltage / for DC</b>            | %  | -20   |

|   |   |     |
|---|---|-----|
| <b>Relative positive tolerance / of the control supply voltage / for DC</b> | % | 20  |
| <b>Type of display / for fault signal</b>                                   |   | red |

#### Mechanical design:

|   |    |  |
|---|----|--|
| <b>Size of the engine control device</b>                  |    | S00  |
| <b>Width</b>  | mm | 45   |
| <b>Height</b>   | mm | 95   |
| <b>Depth</b>  | mm | 150  |
| <b>Mounting type</b>                                      |    | screw and snap-on mounting   |
| <b>mounting position</b>                                  |    | With vertical mounting surface +/-10° rotatable, with vertical mounting surface +/- 10° tiltable to the front and back |
| <b>Distance, to be maintained, to the ranks assembly</b>  |    |  |
| • upwards   | mm | 60   |
| • sideways  | mm | 15   |
| • downwards   | mm | 40   |
| <b>Installation altitude / at a height over sea level</b> | m  | 5,000  |
| <b>Cable length / maximum</b>                             | m  | 300  |
| <b>Number of poles / for main current circuit</b>         |    | 3  |






#### Electrical connections:

|   |  |  |
|---|--|--|
| <b>Design of the electrical connection</b>  |  |  |
| • for main current circuit  |  | screw-type terminals   |
| • for auxiliary and control current circuit   |  | screw-type terminals   |
| <b>Number of NC contacts / for auxiliary contacts</b>   |  | 0  |
| <b>Number of NO contacts / for auxiliary contacts</b>   |  | 1  |
| <b>Number of changeover contacts / for auxiliary contacts</b>   |  | 0  |
| <b>Type of the connectable conductor cross-section / for main contacts / for box terminal / when using the front clamping point</b> |  |  |
| • solid   |  | 2x (1 ... 2.5 mm <sup>2</sup> ), 2x (2.5 ... 6 mm <sup>2</sup> )   |
| • finely stranded / with conductor end processing   |  | 2x (1.5 ... 2.5 mm <sup>2</sup> ), 2x (2.5 ... 6 mm <sup>2</sup> ) |
| <b>Type of the connectable conductor cross-section / for AWG conductors / for main contacts / for box terminal</b>                  |  |  |
| • when using the front c  |  | 2x (16 ... 10)   |
| <b>Type of the connectable conductor cross-section</b>  |  |  |
| • for auxiliary contacts  |  |  |
| • solid   |  | 2x (0.5 ... 2.5 mm <sup>2</sup> )                                  |
| • finely stranded / with conductor end processing   |  | 2x (0.5 ... 1.5 mm <sup>2</sup> )                                  |
| • for AWG conductors / for auxiliary contacts   |  | 2x (20 ... 14)   |
| • finely stranded / with wire end proc  |  | 2x (20 ... 16)   |

#### Ambient conditions:

|  |    |             |
|--|----|-------------|
| <b>Ambient temperature</b><br>• during operating<br>• during storage | °C | -25 ... +60 |
|  | °C | -40 ... +80 |
| <b>Derating temperature</b>  | °C | 40          |
| <b>Protection class IP</b>   |    | IP20        |

#### Certificates/approvals:

| General Product Approval   |  |   | EMC   | Test Certificates   |
|--|--|---|---|---|
| <br>CCC | <br>CSA |  | <br>UL | <br>C-TICK |
| <a href="#">Type Test Certificates/Test Report</a>                                       |  |   |   |   |
| <b>other</b>   |  |   |   |   |
| <a href="#">Declaration of Conformity</a>  | <a href="#">other</a>  | <a href="#">Environmental Confirmations</a>                                       |   |   |

#### UL/CSA ratings

|   |    |             |
|---|----|-------------|
| <b>yielded mechanical performance (hp) / for three-phase squirrel cage motors</b><br>• at 220/230 V / at standard circuit<br>• at 50 °C / rated value<br>• at 460/480 V / at standard circuit<br>• at 50 °C / rated value | hp | 1           |
|   | hp | 3           |
| <b>Contact rating designation / for auxiliary contacts / according to UL</b>  |    | B300 / R300 |

#### Further information:

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

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

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

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

##### CAX-Online-Generator

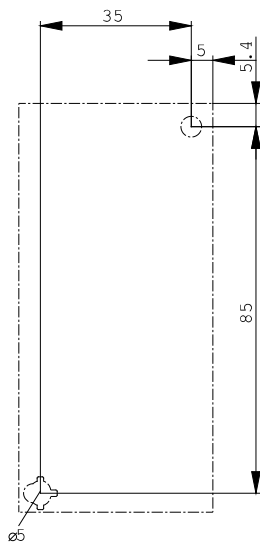
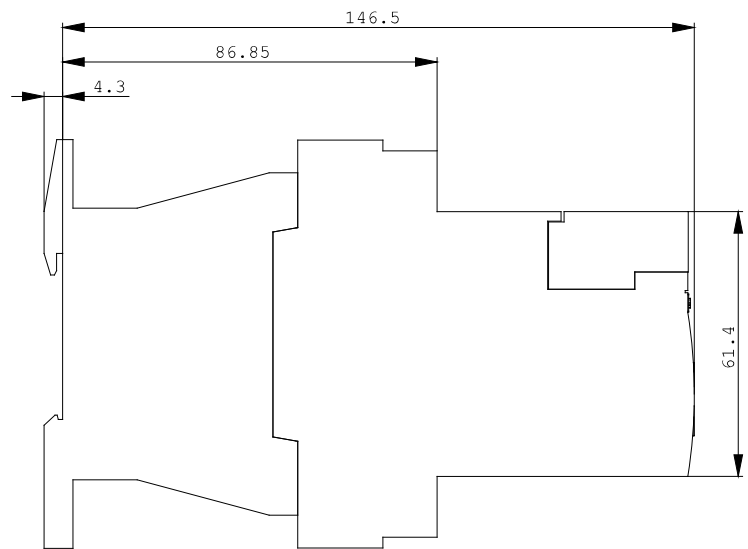
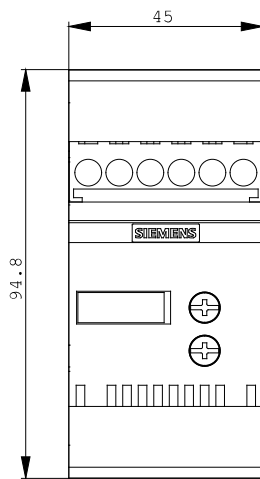
<http://www.siemens.com/cax>

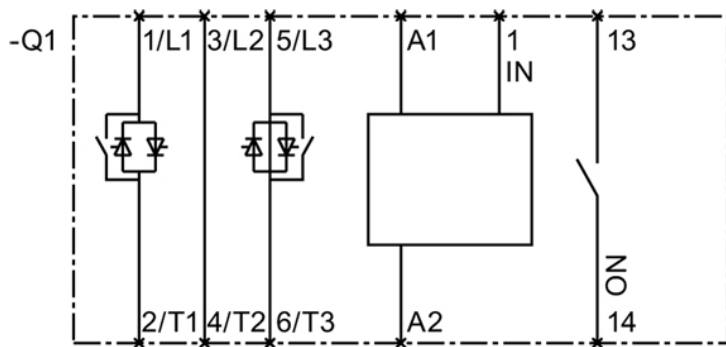
##### Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<http://support.automation.siemens.com/WW/view/en/3RW3014-1BB04/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3RW3014-1BB04](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RW3014-1BB04)





last change:

Mar 31, 2014