



SIRIUS SOFT STARTER, VALUES AT 690V,  
40DEGREES, STANDARD: 1076A, 1100KW,  
INSIDE DELTA: ONLY UP TO 600V,  
AC 400-690V, AC 230V, 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                                              |  | Yes    |
| • motor overload protection                                                |  | Yes    |
| • evaluation of thermal resistor motor protection                          |  | Yes    |
| • reset external                                                           |  | Yes    |
| • adjustable current limitation                                            |  | Yes    |
| • inside-delta circuit                                                     |  | Yes    |
| <b>Product component / outlet for enine brake</b>                          |  | Yes    |
| <b>Item designation</b>                                                    |  |        |
| • according to DIN EN 61346-2                                              |  | Q      |
| • according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 |  | G      |

### Power Electronics:

|                            |  |                                             |
|----------------------------|--|---------------------------------------------|
| <b>product designation</b> |  | soft starters for high feature applications |
| Operating current          |  |                                             |

|                                                                                              |    |             |
|----------------------------------------------------------------------------------------------|----|-------------|
| • at 40 °C / rated value                                                                     | A  | 1,076       |
| • at 50 °C / rated value                                                                     | A  | 970         |
| • at 60 °C / rated value                                                                     | A  | 880         |
| • for three-phase servomotors / at 3-phase root switching                                    |    |             |
| • at 40 °C / rated value                                                                     | A  | 1,864       |
| • at 50 °C / rated value                                                                     | A  | 1,680       |
| • at 60 °C / rated value                                                                     | A  | 1,524       |
| <b>Emitted mechanical power / for three-phase servomotors</b>                                |    |             |
| • at 400 V / at standard switching / at 40 °C                                                |    |             |
| • rated value                                                                                | W  | 630,000     |
| • at 500 V / at standard switching / at 40 °C                                                |    |             |
| • rated value                                                                                | W  | 800,000     |
| • at 690 V / at standard switching / at 40 °C                                                |    |             |
| • rated value                                                                                | W  | 1,100,000   |
| • at 400 V / at 3-phase root switching / at 40 °C                                            |    |             |
| • rated value                                                                                | W  | 1,100,000   |
| • at 500 V / at 3-phase root switching / at 40 °C                                            |    |             |
| • rated value                                                                                | W  | 1,350,000   |
| <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  | 400 ... 690 |
| <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>Operating voltage / at 3-phase root switching / rated value</b>                           |    |             |
|                                                                                              | V  | 400 ... 600 |
| <b>Relative negative tolerance / of the operating voltage / with inside-delta circuit</b>    |    |             |
|                                                                                              | %  | -15         |
| <b>Relative positive tolerance / of the operating voltage / with inside-delta circuit</b>    |    |             |
|                                                                                              | %  | 10          |
| <b>Minimum load in % of I<sub>M</sub></b>                                                    |    |             |
|                                                                                              | %  | 8           |
| <b>Adjustable rated current / of the motor / for motor overload protection / minimum</b>     |    |             |
|                                                                                              | A  | 215         |
| <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  | 510         |
| <b>Control electronics:</b>                                                                  |    |             |
| <b>Type of voltage / of the controlled supply voltage</b>                                    |    |             |
|                                                                                              |    | AC          |
| <b>Control supply voltage frequency / 1 / rated value</b>                                    |    |             |
|                                                                                              | 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 50 Hz / for AC                                                             | V  | 230     |
| • at 60 Hz / for AC                                                             | V  | 230     |
| Relative negative tolerance / of the control supply voltage / at 60 Hz / for AC | %  | -15     |
| Relative positive tolerance / of the control supply voltage / at 60 Hz / for AC | %  | 10      |
| Type of display / for fault signal                                              |    | Display |

|                                                    |    |                                                                                                                   |
|----------------------------------------------------|----|-------------------------------------------------------------------------------------------------------------------|
| <b>Mechanical design:</b>                          |    |                                                                                                                   |
| Width                                              | mm | 575                                                                                                               |
| Height                                             | mm | 780                                                                                                               |
| Depth                                              | mm | 292                                                                                                               |
| Type of mounting                                   |    | screw fixing                                                                                                      |
| mounting position                                  |    | bei senkrechter Montageebene +/-90° drehbar, bei senkrechter Montageebene +/- 22,5° nach vorne und hinten kippbar |
| Distance, to be maintained, to the ranks assembly  |    |                                                                                                                   |
| • upwards                                          | mm | 100                                                                                                               |
| • sideways                                         | mm | 5                                                                                                                 |
| • downwards                                        | mm | 75                                                                                                                |
| Installation altitude / at a height over sea level | m  | 5,000                                                                                                             |
| Cable length / maximum                             | m  | 500                                                                                                               |
| Number of poles / for main current circuit         |    | 3                                                                                                                 |

|                                                                                         |  |                            |
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| <b>Electrical connections:</b>                                                          |  |                            |
| Design of the electrical connection                                                     |  |                            |
| • for main current circuit                                                              |  | busbar connection          |
| • for auxiliary and control current circuit                                             |  | screw-type terminals       |
| Number of NC contacts / for auxiliary contacts                                          |  | 0                          |
| Number of NO contacts / for auxiliary contacts                                          |  | 3                          |
| Number of change-over switches / for auxiliary contacts                                 |  | 1                          |
| Type of the connectable conductor cross-section / for DIN cable lug / for main contacts |  |                            |
| • finely stranded                                                                       |  | 50 ... 240 mm <sup>2</sup> |
| • stranded                                                                              |  | 70 ... 240 mm <sup>2</sup> |
| Type of the connectable conductor cross-section                                         |  |                            |
| • for AWG conductors / for main contacts                                                |  | 2/0 ... 500 kcmil          |

|                                                                                                                                                                                                                                                                                                                                         |  |                                                                                                            |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------|
| <b>Type of the connectable conductor cross-section</b>                                                                                                                                                                                                                                                                                  |  |                                                                                                            |
| <ul style="list-style-type: none"> <li>for auxiliary contacts <ul style="list-style-type: none"> <li>solid</li> <li>finely stranded / with conductor end processing</li> </ul> </li> <li>for AWG conductors / for auxiliary contacts <ul style="list-style-type: none"> <li>finely stranded / with wire end proc</li> </ul> </li> </ul> |  | 2x (0.5 ... 2.5 mm <sup>2</sup> )<br>2x (0.5 ... 1.5 mm <sup>2</sup> )<br>2x (20 ... 14)<br>2x (20 ... 16) |

|                                                                                            |            |                   |
|--------------------------------------------------------------------------------------------|------------|-------------------|
| <b>Ambient conditions:</b>                                                                 |            |                   |
| <b>Ambient temperature</b>                                                                 |            |                   |
| <ul style="list-style-type: none"> <li>during operating</li> <li>during storage</li> </ul> | / °C<br>°C | 60<br>-25 ... +80 |
| <b>Derating temperature</b>                                                                | °C         | 40                |
| <b>Protection class IP</b>                                                                 |            | IP00              |

|                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                       |                                          |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|------------------------------------------|
| <b>Certificates/approvals:</b>                                                      |                                                                                     |                                                                                     |                                                                                     |                                                                                       |                                          |
| <b>General Product Approval</b>                                                     |                                                                                     |                                                                                     |                                                                                     | <b>EMC</b>                                                                            | <b>Test Certificates</b>                 |
|    |    |    |    |    | <a href="#">Special Test Certificate</a> |
| CCC                                                                                 | CSA                                                                                 | GOST                                                                                | UL                                                                                  | C-TICK                                                                                |                                          |
| <b>Shipping Approval</b>                                                            |                                                                                     |                                                                                     |                                                                                     |                                                                                       |                                          |
|  |  |  |  |  |                                          |
| BUREAU<br>VERITAS                                                                   | DNV                                                                                 | GL                                                                                  | LRS                                                                                 | PRS                                                                                   |                                          |
| <b>other</b>                                                                        |                                                                                     |                                                                                     |                                                                                     |                                                                                       |                                          |
| <a href="#">Declaration of Conformity</a>                                           | <a href="#">Environmental Confirmations</a>                                         |                                                                                     |                                                                                     |                                                                                       |                                          |

|                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                          |                                                                                                                    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| <b>UL/CSA ratings</b>                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                          |                                                                                                                    |
| <b>yielded mechanical performance (hp) / for three-phase squirrel cage motors</b>                                                                                                                                                                                                                                                                                                                                                      |                                                                                                          |                                                                                                                    |
| <ul style="list-style-type: none"> <li>at 460/480 V / at standard circuit <ul style="list-style-type: none"> <li>at 50 °C / rated value</li> </ul> </li> <li>at 575/600 V / at standard circuit <ul style="list-style-type: none"> <li>at 50 °C / rated value</li> </ul> </li> <li>at 460/480 V / at inside-delta circuit / at 50 °C / rated value</li> <li>at 575/600 V / at inside-delta circuit / at 50 °C / rated value</li> </ul> | hp<br><br><br><br><br><br><br><br>hp<br><br><br><br><br><br><br><br>hp<br><br><br><br><br><br><br><br>hp | 850<br><br><br><br><br><br><br><br>1,100<br><br><br><br><br><br><br><br>1,500<br><br><br><br><br><br><br><br>1,900 |
| <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

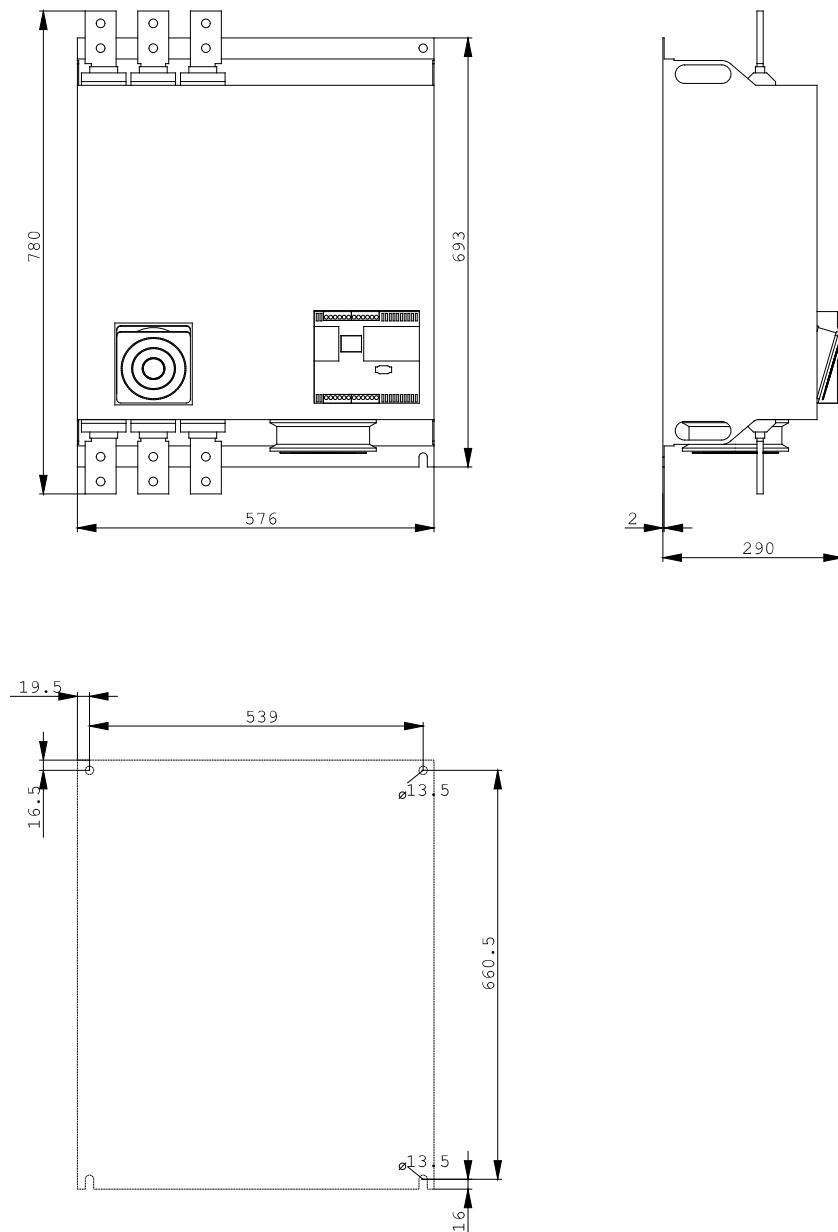
<http://www.siemens.com/cax>

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

<http://support.automation.siemens.com/WW/view/en/3RW4465-6BC46/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3RW4465-6BC46](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RW4465-6BC46)



last change:

Feb 7, 2013