



SIRIUS SOFT STARTER, SIZE S00, 17.6A, 7.5KW/400V, 40 DEGREES, 200-480V AC, 24V AC/DC, SCREW TERMINALS

General details:

| | | |
|--|--|--------|
| product brand name | | SIRIUS |
| Product equipment | | |
| • integrated bridging contact system | | Yes |
| • thyristors | | Yes |
| Product function | | |
| • 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 |
| Product component / outlet for enine brake | | No |
| Item designation | | |
| • according to DIN EN 61346-2 | | Q |
| • according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 | | G |

Power Electronics:

| | | |
|----------------------------|--|---|
| product designation | | soft starters for standard applications |
| Operating current | | |

| | | |
|---|----|-------------|
| • at 40 °C / rated value | A | 17.6 |
| • at 50 °C / rated value | A | 17 |
| • at 60 °C / rated value | A | 14 |
| Emitted mechanical power / for three-phase servomotors | | |
| • at 230 V / at standard switching / at 40 °C | | |
| • rated value | W | 4,000 |
| • at 400 V / at standard switching / at 40 °C | | |
| • rated value | W | 7,500 |
| yielded mechanical performance (hp) / for three-phase squirrel cage motors / at 200/208 V / at standard circuit / at 50 °C / rated value | hp | 3 |
| 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 / with standard circuit / rated value | V | 200 ... 480 |
| Relative negative tolerance / of the operating voltage / with standard circuit | % | -15 |
| Relative positive tolerance / of the operating voltage / with standard circuit | % | 10 |
| Minimum load in % of I_M | % | 10 |
| Continuous operating current in % of I_e / at 40°C | % | 115 |
| Active power loss / at operating current / at 40°C / during operating phase / typical | W | 4 |

Control electronics:

| | | |
|--|----|-------|
| Type of voltage / of the controlled 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 50 Hz / for AC | V | 24 |
| • at 60 Hz / for AC | V | 24 |
| Relative negative tolerance / of the control supply voltage / at 60 Hz / for AC | % | -20 |
| Relative positive tolerance / of the control supply voltage / at 60 Hz / for AC | % | 20 |
| Control supply voltage / 1 / for DC / rated value | V | 24 |
| Relative negative tolerance / of the control supply voltage / for DC | % | -20 |

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

Mechanical design:

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

Electrical connections:

| | | |
|--|--|--|
| Design of the 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 change-over switches / for auxiliary contacts | | 0 |
| Type of the connectable conductor cross-section / for main contacts / for box terminal / when using the front clamping point | | |
| • solid | | 2x (1 ... 2.5 mm ²), 2x (2.5 ... 6 mm ²) |
| • finely stranded / with conductor end processing | | 2x (1.5 ... 2.5 mm ²), 2x (2.5 ... 6 mm ²) |
| Type of the connectable conductor cross-section / for AWG conductors / for main contacts / for box terminal | | |
| • when using the front c | | 2x (16 ... 10) |
| Type of the connectable conductor cross-section | | |
| • for auxiliary contacts | | |
| • solid | | 2x (0.5 ... 2.5 mm ²) |
| • finely stranded / with conductor end processing | | 2x (0.5 ... 1.5 mm ²) |
| • for AWG conductors / for auxiliary contacts | | 2x (20 ... 14) |
| • finely stranded / with wire end proc | | 2x (20 ... 16) |

Ambient conditions:

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

Certificates/approvals:

| | | |
|---------------------------------|------------|--------------------------|
| General Product Approval | EMC | Test Certificates |
|---------------------------------|------------|--------------------------|



[Type Test Certificates/Test Report](#)

other

[Declaration of Conformity](#)

[other](#)

[Environmental Confirmations](#)

UL/CSA ratings

yielded mechanical performance (hp) / for three-phase squirrel cage motors

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

hp 3

hp 10

Contact rating designation / for auxiliary contacts / according to UL

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

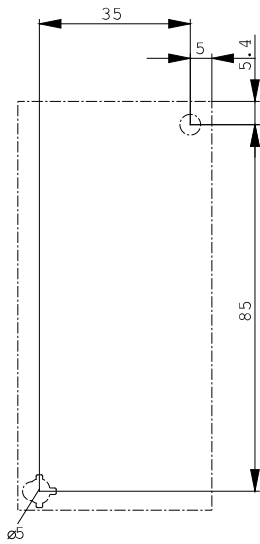
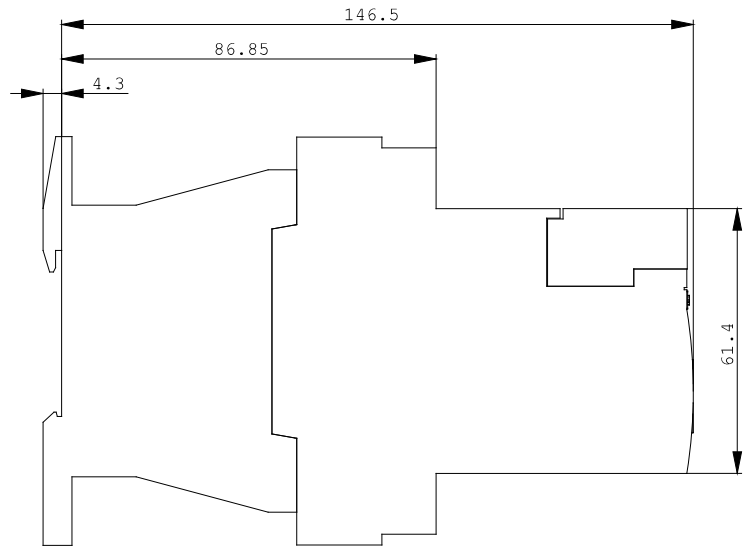
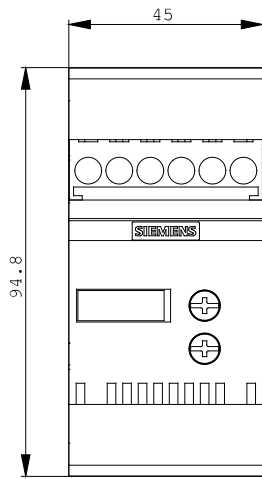
<http://www.siemens.com/cax>

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

<http://support.automation.siemens.com/WW/view/en/3RW3018-1BB04/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RW3018-1BB04



last change:

Feb 7, 2013