



SIRIUS SOFT STARTER, VALUES WITH 400 V,
40 DEG., STANDARD: 29A, 15KW,
INSIDE-DELTA CIRCUIT 3: 50A, 22KW,
200-460 V AC, 230 V AC,
CAGE CLAMP TERMINALS

General details:

| | | |
|---|--|--------|
| product brand name | | SIRIUS |
| Product feature | | |
| <ul style="list-style-type: none"> integrated bypass contact system | | Yes |
| <ul style="list-style-type: none"> Thyristors | | Yes |
| Product function | | |
| <ul style="list-style-type: none"> Intrinsic device protection | | Yes |
| <ul style="list-style-type: none"> motor overload protection | | Yes |
| <ul style="list-style-type: none"> Evaluation of thermistor motor protection | | Yes |
| <ul style="list-style-type: none"> External reset | | Yes |
| <ul style="list-style-type: none"> Adjustable current limitation | | Yes |
| <ul style="list-style-type: none"> inside-delta circuit | | Yes |
| Product component / Motor brake output | | Yes |
| Reference code | | |
| <ul style="list-style-type: none"> acc. to DIN EN 61346-2 | | Q |
| <ul style="list-style-type: none"> acc. to DIN 40719 extended according to IEC 204-2 / acc. to IEC 750 | | G |

Power Electronics:

| | | |
|----------------------------|--|---|
| Product designation | | soft starters for high feature applications |
| Operating current | | |

| | | |
|---|----|-------------|
| • at 40 °C / Rated value | A | 29 |
| • at 50 °C / Rated value | A | 26 |
| • at 60 °C / Rated value | A | 23 |
| • for three-phase motors / at 3-phase root switching | | |
| • at 40 °C / Rated value | A | 50 |
| • at 50 °C / Rated value | A | 45 |
| • at 60 °C / Rated value | A | 40 |
| Mechanical power output / for three-phase motors | | |
| • at 230 V / at standard circuit / at 40 °C | | |
| • Rated value | W | 5,500 |
| • at 400 V / at standard circuit / at 40 °C | | |
| • Rated value | W | 15,000 |
| • at 230 V / at 3-phase root switching / at 40 °C | | |
| • Rated value | W | 15,000 |
| • at 400 V / at 3-phase root switching / at 40 °C | | |
| • Rated value | W | 22,000 |
| yielded mechanical performance [hp] / for three-phase AC motor / at 200/208 V / at standard circuit / at 50 °C / Rated value | hp | 7.5 |
| 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 3-phase root switching / Rated value | V | 200 ... 460 |
| Relative negative tolerance / of the operating voltage / at 3-phase root switching | % | -15 |
| Relative positive tolerance / of the operating voltage / at 3-phase root switching | % | 10 |
| Minimum load in % of I_M | % | 8 |
| Adjustable motor current / for motor overload protection / minimum rated value | A | 5 |
| Continuous operating current in % of I_e / at 40 °C | % | 115 |
| Active power loss / at operating current / at 40 °C / during operation / typical | W | 8 |
| Control electronics: | | |
| 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 | | |
| • with AC / at 50 Hz | V | 230 |
| • with AC / at 60 Hz | V | 230 |
| Relative negative tolerance / of the control supply voltage / with AC / at 60 Hz | % | -15 |
| Relative positive tolerance / of the control supply voltage / with AC / at 60 Hz | % | 10 |
| Display version / for fault signal | | Display |

Mechanical design:

| | | |
|--|----|---|
| Width | mm | 170 |
| Height | mm | 192 |
| Depth | mm | 270 |
| Mounting type | | screw fixing |
| mounting position | | bei senkrechter Montageebene +/-90° drehbar, bei senkrechter Montageebene +/- 22,5° nach vorne und hinten kippbar |
| Spacing required | | |
| • with side-by-side mounting | mm | 100 |
| • with side-by-side mounting | mm | 5 |
| • with side-by-side mounting | mm | 75 |
| Installation altitude / at height above sea level | m | 5,000 |
| Cable length / maximum | m | 500 |
| Number of poles / for main current circuit | | 3 |

Electrical connections:

| | | |
|--|--|----------------------------|
| Design of the electrical connection | | |
| • for main current circuit | | box terminals |
| • for auxiliary and control current circuit | | spring-loaded 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-section / for main contacts / for box terminal / using the front clamping point | | |
| • solid | | 2.5 ... 16 mm ² |
| • finely stranded / with core end processing | | 2.5 ... 35 mm ² |
| • finely stranded / without core end processing | | 4 ... 50 mm ² |
| • stranded | | 4 ... 70 mm ² |

| | | |
|--|--|--|
| Type of connectable conductor cross-section / for main contacts / for box terminal / using the back clamping point <ul style="list-style-type: none"> • solid • finely stranded / with core end processing • finely stranded / without core end processing • stranded | | 2,5 ... 16 mm ² 2.5 ... 50 mm ² 10 ... 50 mm ² 10 ... 70 mm ² |
| Type of connectable conductor cross-section / for main contacts / for box terminal / using both clamping points <ul style="list-style-type: none"> • solid • finely stranded / with core end processing • finely stranded / without core end processing • stranded | | 2x (2.5 ... 16 mm ²) 2x (2.5 ... 35 mm ²) 2x (4 ... 35 mm ²) 2x (4 ... 50 mm ²) |
| Type of connectable conductor cross-section / for AWG conductors / for main contacts / for box terminal <ul style="list-style-type: none"> • using the back clamping point • using the front clamping point • using both clamping points | | 10 ... 2/0 10 ... 2/0 2x (10 ... 1/0) |
| Type of connectable conductor cross-section <ul style="list-style-type: none"> • for auxiliary contacts <ul style="list-style-type: none"> • solid • finely stranded / with core end processing • for AWG conductors / for auxiliary contacts | | 2x (0.25 ... 1.5 mm ²) 2x (0.25 ... 1.5 mm ²) 2x (24 ... 16) |

Ambient conditions:

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

Certificates/approvals:

General Product Approval

EMC

Declaration of Conformity



Test Certificates

[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)

Shipping Approval



other

[Environmental Confirmations](#)

UL/CSA ratings

yielded mechanical performance [hp] / for three-phase AC motor

- at 220/230 V / at standard circuit
 - at 50 °C / Rated value
- at 460/480 V / at standard circuit
 - at 50 °C / Rated value
- at 200/208 V / at 3-phase root switching / at 50 °C / Rated value
- at 220/230 V / at 3-phase root switching / at 50 °C / Rated value
- at 460/480 V / at 3-phase root switching / at 50 °C / Rated value

| | |
|----|-----|
| hp | 7.5 |
| hp | 15 |
| hp | 10 |
| hp | 15 |
| hp | 30 |

Contact rating / of the auxiliary contacts / acc. 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

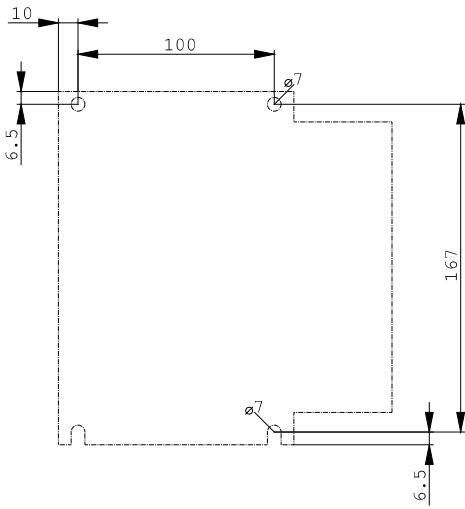
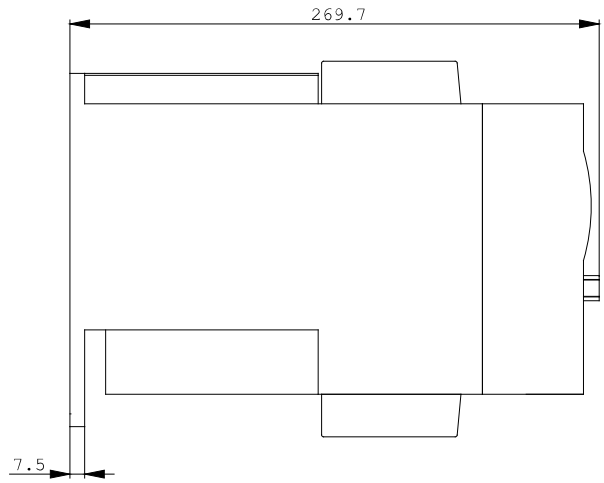
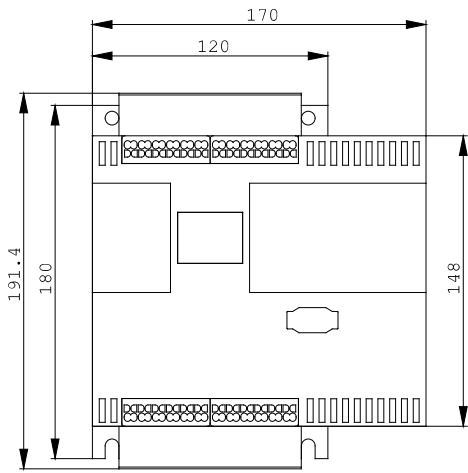
<http://www.siemens.com/cax>

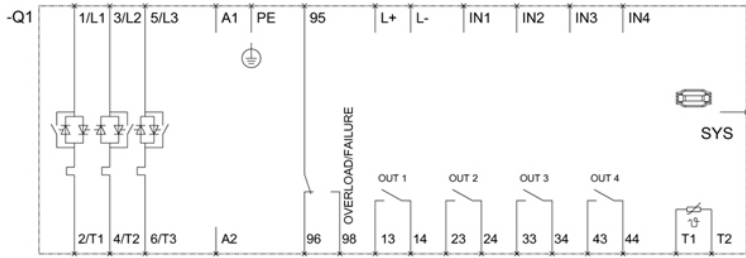
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<http://support.automation.siemens.com/WW/view/en/3RW4422-3BC44/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RW4422-3BC44





last change:

Sep 29, 2014