

SIRIUS SOFT STARTER, VALUES AT 400V,
40DEG., STANDARD: 780A, 450KW,
INSIDE-DELTA CIRCUIT 3: 1351A, 800KW,
200-460V AC, 230V AC, SCREW TERMINALS

General details:

| | | |
|---|--|--------|
| product brand name | | SIRIUS |
| Product feature | | |
| • integrated bypass contact system | | Yes |
| • Thyristors | | Yes |
| Product function | | |
| • Intrinsic device protection | | Yes |
| • motor overload protection | | Yes |
| • Evaluation of thermistor motor protection | | Yes |
| • External reset | | Yes |
| • Adjustable current limitation | | Yes |
| • inside-delta circuit | | Yes |
| Product component / Motor brake output | | Yes |
| Reference code | | |
| • acc. to DIN EN 61346-2 | | Q |
| • 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 | | |

| | | |
|--|----|-------------|
| <ul style="list-style-type: none"> • at 40 °C / Rated value • at 50 °C / Rated value • at 60 °C / Rated value • for three-phase motors / at 3-phase root switching <ul style="list-style-type: none"> • at 40 °C / Rated value • at 50 °C / Rated value • at 60 °C / Rated value | A | 780 |
| | A | 693 |
| | A | 615 |
| | A | 1,351 |
| | A | 1,200 |
| | A | 1,065 |
| Mechanical power output / for three-phase motors | | |
| <ul style="list-style-type: none"> • at 230 V / at standard circuit / at 40 °C <ul style="list-style-type: none"> • Rated value • at 400 V / at standard circuit / at 40 °C <ul style="list-style-type: none"> • Rated value • at 230 V / at 3-phase root switching / at 40 °C <ul style="list-style-type: none"> • Rated value • at 400 V / at 3-phase root switching / at 40 °C <ul style="list-style-type: none"> • Rated value | W | 250,000 |
| | W | 450,000 |
| | W | 450,000 |
| | W | 800,000 |
| yielded mechanical performance [hp] / for three-phase AC motor / at 200/208 V / at standard circuit / at 50 °C / Rated value | hp | 200 |
| Operating frequency | | |
| <ul style="list-style-type: none"> • 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 | 156 |
| Continuous operating current in % of I_e / at 40 °C | % | 115 |
| Active power loss / at operating current / at 40 °C / during operation / typical | W | 214 |
| 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 | 510 |
| Height | mm | 640 |
| Depth | mm | 290 |
| 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 | | |
| • upwards | mm | 100 |
| • at the side | mm | 5 |
| • downwards | 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 | | 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 CO contacts / for auxiliary contacts | | 1 |
| Type of connectable conductor cross-section / for DIN cable lug / for main contacts | | |
| • finely stranded | | 50 ... 240 mm² |
| • stranded | | 70 ... 240 mm² |
| Type of connectable conductor cross-section | | |
| • for AWG conductors / for main contacts | | 2/0 ... 500 kcmil |

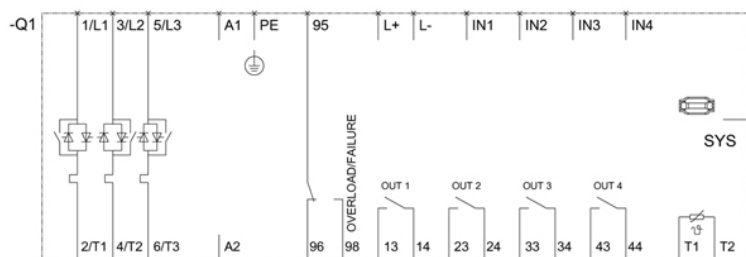
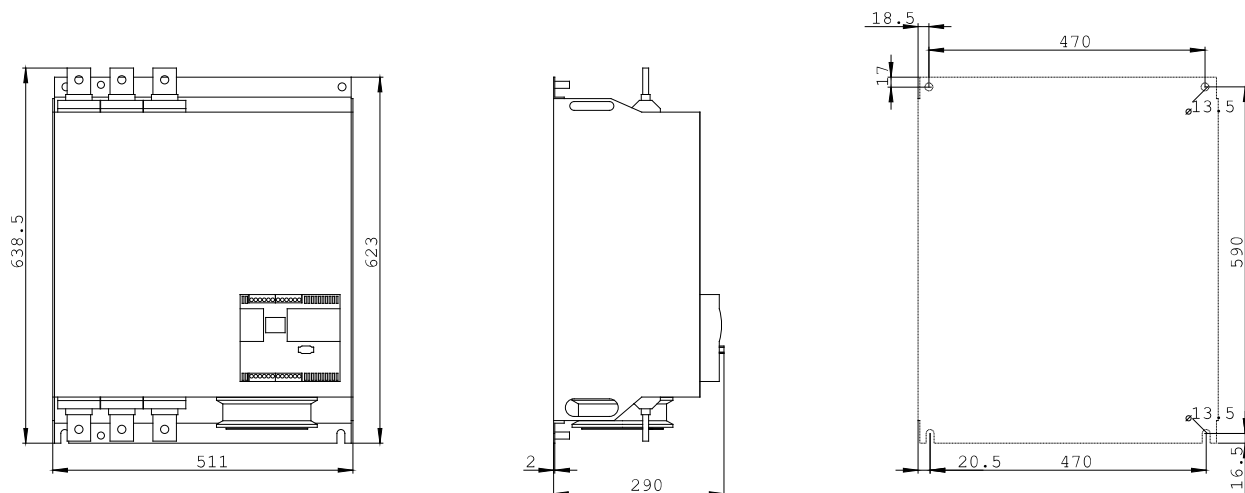
| | | |
|--|--|-----------------------------------|
| Type of connectable conductor cross-section | | |
| • for auxiliary contacts | | |
| • solid | | 2x (0.5 ... 2.5 mm ²) |
| • finely stranded / with core end processing | | 2x (0.5 ... 1.5 mm ²) |
| • for AWG conductors / for auxiliary contacts | | 2x (20 ... 14) |
| • finely stranded / with core end processing | | 2x (20 ... 16) |

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| Ambient conditions: | | |
| Ambient temperature | | |
| • during operation | / °C | 60 |
| • during storage | °C | -25 ... +80 |
| Derating temperature | °C | 40 |
| Protection class IP | | IP00 |

| | | | | | |
|---|---|---|---|---|---|
| Certificates/approvals: | | | | | |
| General Product Approval | | | EMC | Declaration of Conformity | |
|  |  |  |  |  |  |
| CCC | CSA | | UL | C-TICK | EG-Konf. |
| Test Certificates | | Shipping Approval | | other | |
| Special Test Certificate | |  |  |  | Environmental Confirmations |
| | | ABS | DNV | LRS | |

| | | |
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| UL/CSA ratings | | |
| yielded mechanical performance [hp] / for three-phase AC motor | | |
| • at 220/230 V / at standard circuit | | |
| • at 50 °C / Rated value | hp | 250 |
| • at 460/480 V / at standard circuit | | |
| • at 50 °C / Rated value | hp | 600 |
| • at 200/208 V / at 3-phase root switching / at 50 °C / Rated value | hp | 450 |
| • at 220/230 V / at 3-phase root switching / at 50 °C / Rated value | hp | 500 |
| • at 460/480 V / at 3-phase root switching / at 50 °C / Rated value | hp | 1,050 |
| Contact rating / of the auxiliary contacts / acc. to UL | | B300 / R300 |

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|---|--|
| 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 | |



last change:

Sep 29, 2014