



SIRIUS soft starter S00 9 A, 4 kW/400 V, 40 °C 200-480 V AC, 24 V AC/DC Screw terminals

| General technical data | | |
|--|----|--------------------------|
| product brand name | | SIRIUS |
| product designation | | Soft starter |
| product feature | | |
| • integrated bypass contact system | | Yes |
| • thyristors | | Yes |
| product function | | |
| • intrinsic device protection | | No |
| • motor overload protection | | No |
| • evaluation of thermistor motor protection | | No |
| • external reset | | No |
| • adjustable current limitation | | No |
| • inside-delta circuit | | No |
| product component motor brake output | | No |
| insulation voltage rated value | V | 600 |
| degree of pollution | | 3, acc. to IEC 60947-4-2 |
| blocking voltage of the thyristor maximum | V | 1 200 |
| reference code according to EN 61346-2 | | Q |
| reference code according to DIN 40719 extended according to IEC 204-2 according to IEC 750 | | G |
| Power Electronics | | |
| operational current | | |
| • at 40 °C rated value | A | 9 |
| • at 50 °C rated value | A | 8 |
| • at 60 °C rated value | A | 7 |
| yielded mechanical performance for 3-phase motors | | |
| • at 230 V | | |
| — at standard circuit at 40 °C rated value | kW | 2.2 |
| • at 400 V | | |
| — at standard circuit at 40 °C rated value | kW | 4 |
| yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value | hp | 2 |
| 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 ... 480 |
| relative negative tolerance of the operating voltage at standard circuit | % | -15 |
| relative positive tolerance of the operating voltage at standard circuit | % | 10 |
| minimum load [%] | % | 10 |

| | | |
|--|----|--|
| continuous operating current [% of I _e] at 40 °C | % | 115 |
| power loss [W] at operational current at 40 °C during operation typical | W | 1 |
| Control circuit/ Control | | |
| type of voltage of the control 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 AC | | |
| • at 50 Hz rated value | V | 24 |
| • at 60 Hz rated value | V | 24 |
| relative negative tolerance of the control supply voltage at AC at 50 Hz | % | -15 |
| relative positive tolerance of the control supply voltage at AC at 50 Hz | % | 10 |
| relative negative tolerance of the control supply voltage at AC at 60 Hz | % | -15 |
| relative positive tolerance of the control supply voltage at AC at 60 Hz | % | 10 |
| control supply voltage 1 at DC rated value | V | 24 |
| relative negative tolerance of the control supply voltage at DC | % | -20 |
| relative positive tolerance of the control supply voltage at DC | % | 20 |
| display version for fault signal | | red |
| Mechanical data | | |
| size of engine control device | | S00 |
| width | mm | 45 |
| height | mm | 95 |
| depth | mm | 150 |
| fastening method | | screw and snap-on mounting |
| mounting position | | With vertical mounting surface +/-10° rotatable, with vertical mounting surface +/- 10° tiltable to the front and back |
| required spacing with side-by-side mounting | | |
| • upwards | mm | 60 |
| • at the side | mm | 15 |
| • downwards | mm | 40 |
| wire length maximum | m | 300 |
| number of poles for main current circuit | | 3 |
| Connections/ Terminals | | |
| type of electrical connection | | |
| • for main current circuit | | screw-type terminals |
| • for auxiliary and control circuit | | screw-type terminals |
| number of NC contacts for auxiliary contacts | | 0 |
| number of NO contacts for auxiliary contacts | | 1 |
| number of CO contacts for auxiliary contacts | | 0 |
| type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point | | |
| • solid | | 2x (1 ... 2.5 mm ²), 2x (2.5 ... 6 mm ²) |
| • finely stranded with core end processing | | 2x (1 ... 2.5 mm ²), 2x (2.5 ... 6 mm ²) |
| type of connectable conductor cross-sections for AWG cables for main contacts for box terminal | | |
| • using the front clamping point | | 2x (16 ... 10) |
| type of connectable conductor cross-sections for auxiliary contacts | | |
| • solid | | 2x (0.25 ... 2.5 mm ²) |
| • finely stranded with core end processing | | 2x (0.25 ... 1.5 mm ²) |
| type of connectable conductor cross-sections for AWG cables | | |
| • for auxiliary contacts | | 2x (20 ... 14) |
| • for auxiliary contacts finely stranded with core end processing | | 2x (20 ... 16) |

| Ambient conditions | | |
|---|----------|---|
| installation altitude at height above sea level | m | 5 000 |
| environmental category <ul style="list-style-type: none"> during transport according to IEC 60721 during storage according to IEC 60721 during operation according to IEC 60721 | | 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 |
| ambient temperature <ul style="list-style-type: none"> during operation during storage | °C °C | -25 ... +60 -40 ... +80 |
| derating temperature | °C | 40 |
| protection class IP on the front according to IEC 60529 | | IP20 |
| touch protection on the front according to IEC 60529 | | finger-safe, for vertical contact from the front |

| Environmental footprint | | |
|--|----|-------|
| Global Warming Potential [CO2 eq] total | kg | 63.9 |
| Global Warming Potential [CO2 eq] during manufacturing | kg | 11.1 |
| global warming potential [CO2 eq] during sales | kg | 0.109 |
| Global Warming Potential [CO2 eq] during operation | kg | 54.3 |
| Global Warming Potential [CO2 eq] after end of life | kg | -1.64 |

| UL/CSA ratings | | |
|--|----------|-------------|
| yielded mechanical performance [hp] for 3-phase AC motor <ul style="list-style-type: none"> at 220/230 V <ul style="list-style-type: none"> at standard circuit at 50 °C rated value at 460/480 V <ul style="list-style-type: none"> at standard circuit at 50 °C rated value | hp hp | 2 5 |
| contact rating of auxiliary contacts according to UL | | B300 / R300 |

| Approvals Certificates | | |
|--------------------------|--|--|
| General Product Approval | | |



[Confirmation](#)



EG-Konf.



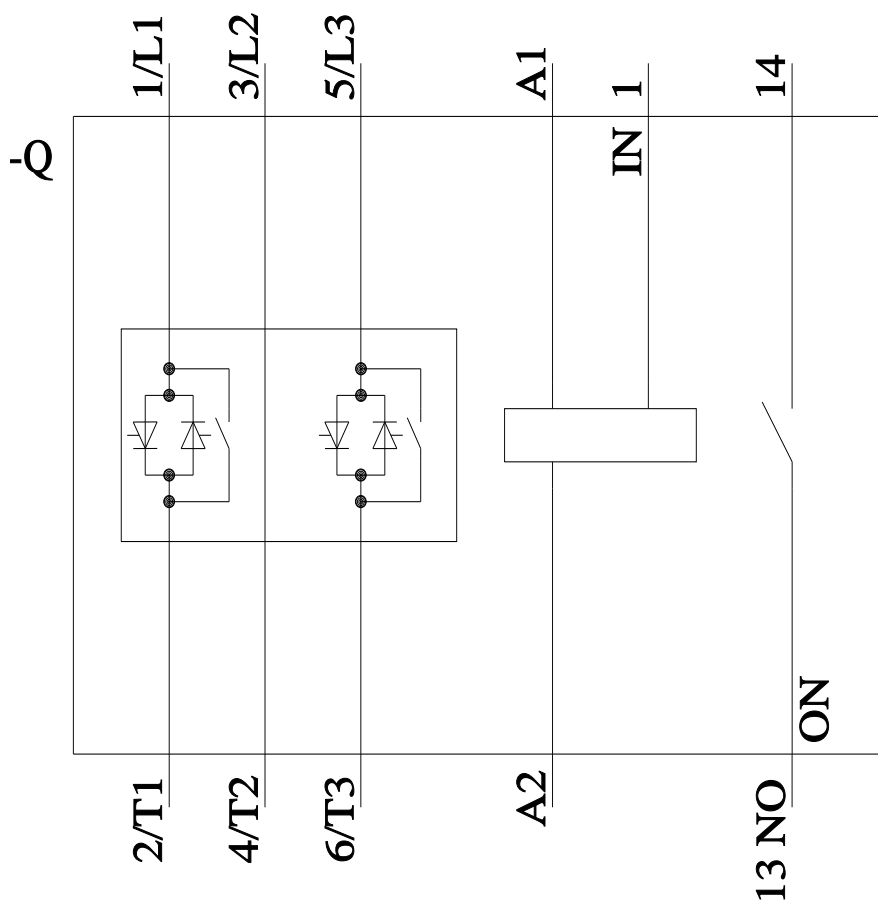
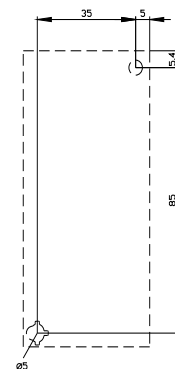
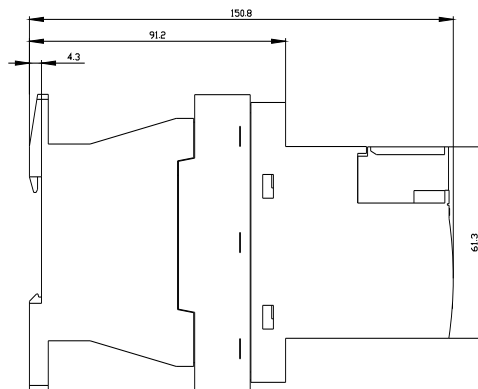
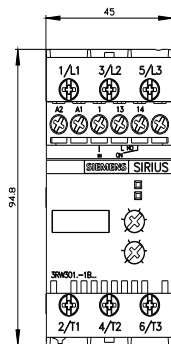
UL



| EMV | Test Certificates | other | Environment |
|---------|--------------------|--|-------------------------------|
| RCM | KC | Type Test Certificates/Test Report | Confirmation |
| | | | Miscellaneous |
| | | | |

| Environment | |
|-------------|---|
| | Environmental Confirmations |

| Further information |
|---|
| Simulation Tool for Soft Starters (STS) https://support.industry.siemens.com/cs/ww/en/view/101494917 Information on the packaging https://support.industry.siemens.com/cs/ww/en/view/109813875 Information- and Downloadcenter (Catalogs, Brochures,...) https://www.siemens.com/ic10 Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW3016-1BB04 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW3016-1BB04 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RW3016-1BB04 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW3016-1BB04&lang=en |



last modified:

11/9/2024