



SIRIUS SOFT STARTER, S0, 12.5A, 7.5KW/500V, 40 DEGR., AC 400-600V, AC/DC 110-230V, SPRING-LOADED TERMINALS

General technical data:

| | | |
|---|--|--------|
| 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 | | No |
| <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 | | No |
| Product component Motor brake output | | No |
| Equipment marking acc. to DIN EN 61346-2 | | Q |
| Equipment marking acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750 | | G |

Power Electronics:

| | | |
|--|---|---|
| Product designation | | soft starters for standard applications |
| Operating current | | |
| <ul style="list-style-type: none"> • at 40 °C Rated value | A | 12.5 |
| <ul style="list-style-type: none"> • at 50 °C Rated value | A | 11 |
| <ul style="list-style-type: none"> • at 60 °C Rated value | A | 10 |
| Mechanical power output for three-phase motors | | |
| <ul style="list-style-type: none"> • at 400 V | | |

| | | |
|--|----|-------------|
| — at standard circuit at 40 °C Rated value | W | 5 500 |
| • at 500 V | | |
| — at standard circuit at 40 °C Rated value | W | 7 500 |
| 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 | 400 ... 600 |
| Relative negative tolerance of the operating voltage at standard circuit | % | -15 |
| Relative positive tolerance of the operating voltage at standard circuit | % | 10 |
| Minimum load in % of I _M | % | 20 |
| 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 | 2 |

Control electronics:

| | | |
|--|----|-------------|
| 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 with AC at 50 Hz | V | 110 ... 230 |
| Control supply voltage 1 with AC at 60 Hz | V | 110 ... 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 |
| Control supply voltage 1 for DC | V | 110 ... 230 |
| Relative negative tolerance of the control supply voltage for DC | % | -15 |
| Relative positive tolerance of the control supply voltage for DC | % | 10 |
| Display version for fault signal | | red |

Mechanical data:

| | | |
|-------------------------------|----|----------------------------|
| Size of engine control device | | S0 |
| Width | mm | 45 |
| Height | mm | 150 |
| Depth | mm | 155 |
| Mounting type | | screw and snap-on mounting |

| | | |
|--|----|--|
| mounting position | | With additional fan: With vertical mounting surface +/- 90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back Without additional fan: With vertical mounting surface +/- 10° rotatable, with vertical mounting surface +/- 10° t |
| Required spacing with side-by-side mounting | | |
| • upwards | mm | 60 |
| • at the side | mm | 15 |
| • downwards | mm | 40 |
| Installation altitude at height above sea level | m | 5 000 |
| Cable length maximum | m | 300 |
| Number of poles for main current circuit | | 3 |

Connections/ Terminals:

| | | |
|---|--|--|
| Type of electrical connection | | spring-loaded terminals |
| • for main current circuit | | spring-loaded 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 | | 2 |
| 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 | | 2x (1.5 ... 2.5 mm ²), 2x (2.5 ... 6 mm ²), max. 1x 10 mm ² |
| • finely stranded with core end processing | | 2x (1.5 ... 2.5 mm ²), 2x (2.5 ... 6 mm ²) |
| Type of connectable conductor cross-section for AWG conductors for main contacts for box terminal | | |
| • using the front clamping point | | 1x 8, 2x (16 ... 10) |
| Type of connectable conductor cross-section for main contacts | | |
| • solid | | 1 ... 10 mm ² |
| • finely stranded with core end processing | | 1 ... 6 mm ² |
| Type of connectable conductor cross-section 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-section for AWG conductors | | |
| • for main contacts | | 16 ... 10, 1x 8 |
| • for auxiliary contacts | | 2x (24 ... 14) |

Ambient conditions:

| | | |
|----------------------------|----|-------------|
| Ambient temperature | | |
| • during operation | °C | -25 ... +60 |

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

Certificates/ approvals:

| | | |
|--------------------------|-----|--------------------------------|
| General Product Approval | EMC | For use in hazardous locations |
|--------------------------|-----|--------------------------------|



| | |
|-------------------|-------------------|
| Test Certificates | Shipping Approval |
|-------------------|-------------------|

[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)



other

[Declaration of Conformity](#)

[Environmental Confirmations](#)

UL/CSA ratings:

| | | |
|--|-----------|-------------|
| yielded mechanical performance [hp] for three-phase AC motor | | |
| • at 460/480 V | | |
| — at standard circuit at 50 °C Rated value | metric hp | 7.5 |
| • at 575/600 V | | |
| — at standard circuit at 50 °C Rated value | metric hp | 10 |
| Contact rating of the auxiliary contacts acc. to UL | | B300 / R300 |

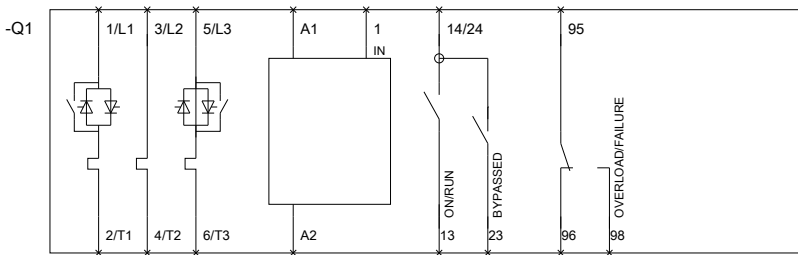
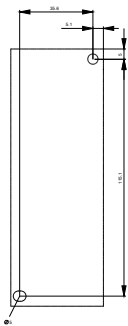
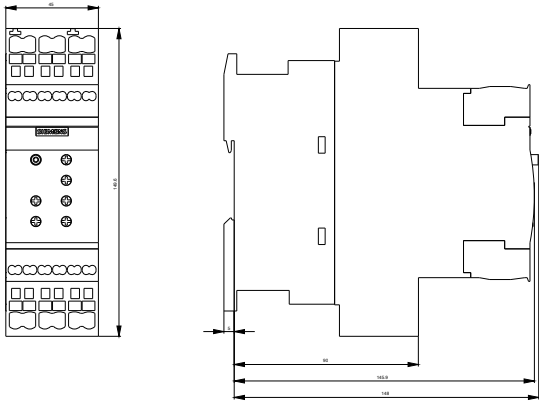
Further information

Information- and Downloadcenter (Catalogs, Brochures,...)
<http://www.siemens.com/industrial-controls/catalogs>

Industry Mall (Online ordering system)
<http://www.siemens.com/industrymall>

Cax online generator
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mifb=3RW40242BB15>

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
<http://support.automation.siemens.com/WW/view/en/3RW40242BB15/all>



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