



SIRIUS SOFT STARTER, S6, 134 A, 75 KW/400 V, 40 DEG., 200-460 V AC, 230 V AC, SCREW TERMINALS

General technical data:

| | | |
|--|--|--------|
| 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 | | No |
| • External reset | | Yes |
| • Adjustable current limitation | | Yes |
| • 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 | | |
| • at 40 °C Rated value | A | 134 |
| • at 50 °C Rated value | A | 117 |
| • at 60 °C Rated value | A | 100 |
| Mechanical power output for three-phase motors | | |
| • at 230 V | | |

| | | |
|---|--------------|-------------|
| — at standard circuit at 40 °C Rated value | W | 37 000 |
| • at 400 V | | |
| — at standard circuit at 40 °C Rated value | W | 75 000 |
| yielded mechanical performance [hp] for three-phase AC motor at 200/208 V at standard circuit at 50 °C Rated value | metric hp | 30 |
| 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 |
| Minimum load in % of I _M | % | 20 |
| Adjustable motor current for motor overload protection minimum rated value | A | 59 |
| Continuous operating current [% of I _e] at 40 °C | % | 115 |
| Active power loss at operating current at 40 °C during operation typical | W | 60 |

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 Rated value | V | 230 |
| • at 60 Hz Rated value | 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 | | red |

Mechanical data:

| | | |
|-------------------------------|----|--------------|
| Size of engine control device | | S6 |
| Width | mm | 120 |
| Height | mm | 198 |
| Depth | mm | 250 |
| Mounting type | | screw fixing |

| | | |
|--|----|--|
| 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 | 100 |
| • at the side | mm | 5 |
| • downwards | mm | 75 |
| 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 | | busbar connection screw-type terminals |
| • for main current circuit | | |
| • for auxiliary and control current circuit | | |
| 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 | | |
| • finely stranded with core end processing | | 16 ... 70 mm ² |
| • finely stranded without core end processing | | 16 ... 70 mm ² |
| • stranded | | 16 ... 70 mm ² |
| Type of connectable conductor cross-section for main contacts for box terminal using the back clamping point | | |
| • finely stranded with core end processing | | 16 ... 70 mm ² |
| • finely stranded without core end processing | | 16 ... 70 mm ² |
| • stranded | | 16 ... 70 mm ² |
| Type of connectable conductor cross-section for main contacts for box terminal using both clamping points | | |
| • finely stranded with core end processing | | max. 1x 50 mm ² , 1x 70 mm ² |
| • finely stranded without core end processing | | max. 1x 50 mm ² , 1x 70 mm ² |
| • stranded | | max. 2x 70 mm ² |
| Type of connectable conductor cross-section for AWG conductors for main contacts for box terminal | | |
| • using the back clamping point | | 6 ... 2/0 |
| • using the front clamping point | | 6 ... 2/0 |
| • using both clamping points | | max. 2x 1/0 |
| Type of connectable conductor cross-section for DIN cable lug for main contacts | | |

| | |
|--|--|
| <ul style="list-style-type: none"> finely stranded stranded | 16 ... 95 mm ² 25 ... 120 mm ² |
| Type of connectable conductor cross-section for auxiliary contacts <ul style="list-style-type: none"> solid finely stranded with core end processing | 2x (0.5 ... 2.5 mm ²) 2x (0.5 ... 1.5 mm ²) |
| Type of connectable conductor cross-section for AWG conductors <ul style="list-style-type: none"> for main contacts for auxiliary contacts for auxiliary contacts finely stranded with core end processing | 4 ... 250 kcmil 2x (20 ... 14) 2x (20 ... 16) |

Ambient conditions:

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

Certificates/ approvals:

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



[Special Test Certificate](#)

| | |
|--------------------------|--------------|
| Shipping Approval | other |
|--------------------------|--------------|



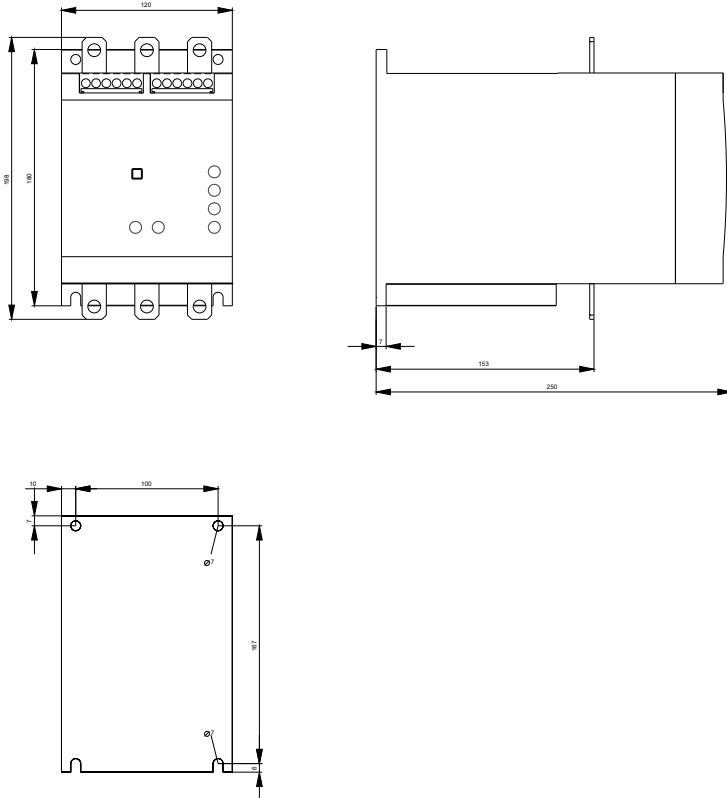
[Environmental Confirmations](#)

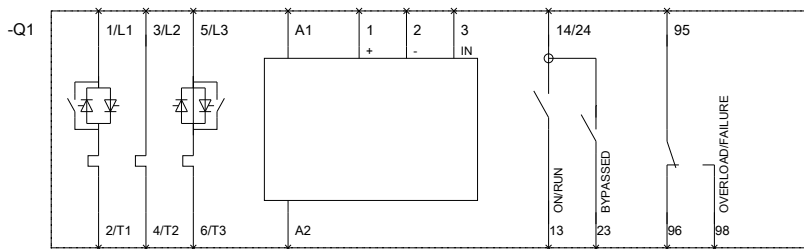
[Declaration of Conformity](#)

UL/CSA ratings:

| | | |
|--|-----------|----|
| yielded mechanical performance [hp] for three-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 | metric hp | 40 |
| | metric hp | 75 |

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&mlfb=3RW40556BB44>**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**<https://support.industry.siemens.com/cs/ww/en/ps/3RW40556BB44>**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)**http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW40556BB44&lang=en



last modified:

27.04.2015