



SIRIUS SOFT STARTER, SIZE S3, 106A, 55KW/400V, 40 DEGREES, 200-480V AC, 110-230V AC/DC, SCREW 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 | | No |
| <ul style="list-style-type: none"> motor overload protection | | No |
| <ul style="list-style-type: none"> Evaluation of thermistor motor protection | | No |
| <ul style="list-style-type: none"> External reset | | No |
| <ul style="list-style-type: none"> Adjustable current limitation | | No |
| <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 | 106 |
| <ul style="list-style-type: none"> at 50 °C Rated value | A | 98 |
| <ul style="list-style-type: none"> at 60 °C Rated value | A | 90 |
| Mechanical power output for three-phase motors | | |
| <ul style="list-style-type: none"> at 230 V | | |

| | | |
|---|--------------|-------------|
| — at standard circuit at 40 °C Rated value | W | 30 000 |
| • at 400 V | | |
| — at standard circuit at 40 °C Rated value | W | 55 000 |
| 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 ... 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 in % of I _M | % | 10 |
| Continuous operating current in % of I _e at 40 °C | % | 115 |
| Active power loss at operating current at 40 °C during operation typical | W | 21 |

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 | | S3 |
| Width | mm | 70 |
| Height | mm | 170 |
| Depth | mm | 190 |

| | | |
|--|----|--|
| Mounting type | | 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 | 30 |
| • 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 | | |
| • for main current circuit | | screw-type terminals |
| • for auxiliary and control current 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-section for main contacts for box terminal using the front clamping point | | |
| • solid | | 2x (2.5 ... 16 mm ²) |
| • finely stranded with core end processing | | 2.5 ... 35 mm ² |
| • stranded | | 4 ... 70 mm ² |
| Type of connectable conductor cross-section for main contacts for box terminal using the back clamping point | | |
| • solid | | 2x (2.5 ... 16 mm ²) |
| • finely stranded with core end processing | | 2.5 ... 50 mm ² |
| • stranded | | 10 ... 70 mm ² |
| Type of connectable conductor cross-section for main contacts for box terminal using both clamping points | | |
| • solid | | 2x (2.5 ... 16 mm ²) |
| • finely stranded with core end processing | | 2x (2.5 ... 35 mm ²) |
| • stranded | | 2x (10 ... 50 mm ²) |
| Type of connectable conductor cross-section for AWG conductors for main contacts for box terminal | | |
| • using the back clamping point | | 10 ... 2/0 |
| • using the front clamping point | | 10 ... 2/0 |
| • using both clamping points | | 2x (10 ... 1/0) |
| Type of connectable conductor cross-section for DIN cable lug for main contacts | | |

| | | |
|---|--|--|
| <ul style="list-style-type: none"> finely stranded stranded | | 2 x (10 ... 50 mm ²) 2x (10 ... 70 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 | | 2x (7 ... 1/0) 2x (20 ... 14) |

Ambient conditions:

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

Certificates/ approvals:

| | | |
|--|---|--|
| General Product Approval | EMC | Test Certificates |
|  CCC |  CSA |  UL |
|  | | |
|  C-TICK | | |
| Type Test Certificates/Test Report | | |

other

| | | |
|---|-----------------------|---|
| Declaration of Conformity | other | Environmental Confirmations |
|---|-----------------------|---|

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 | 30 |
| | metric hp | 75 |
| 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

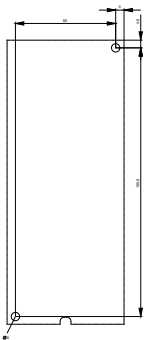
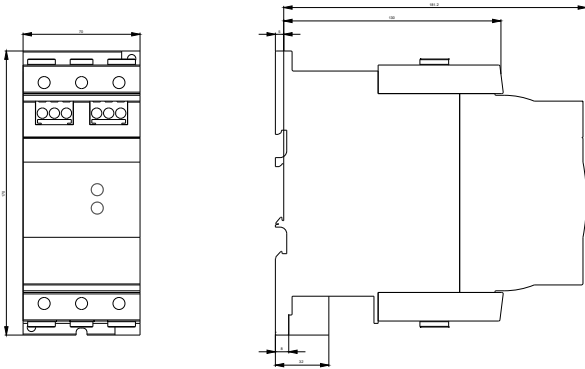
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mfb=3RW30471BB14>

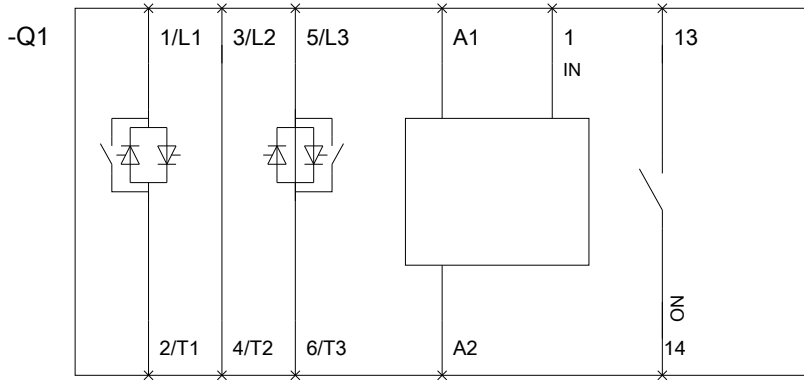
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<http://support.automation.siemens.com/WW/view/en/3RW30471BB14/all>

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

<http://www.automation.siemens.com/bilddb/index.aspx?attID9=3RW30471BB14&lang=en>





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