



SIRIUS soft starter Values at 400 V, 40 °C standard: 77 A, 37 kW Inside-delta: 133 A, 75 kW 200-460 V AC, 230 V AC Screw terminals !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5526-1HA14<<

| General technical data | | |
|--|----------------------|--|
| product brand name | | SIRIUS |
| product feature | | |
| <ul style="list-style-type: none"> integrated bypass contact system thyristors | | Yes Yes |
| product function | | |
| <ul style="list-style-type: none"> intrinsic device protection motor overload protection evaluation of thermistor motor protection external reset adjustable current limitation inside-delta circuit | | Yes Yes Yes Yes Yes Yes |
| product component motor brake output | | Yes |
| insulation voltage rated value | V | 690 |
| degree of pollution | | 3, acc. to IEC 60947-4-2 |
| 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 | | |
| product designation | | Soft starter |
| operational current | | |
| <ul style="list-style-type: none"> at 40 °C rated value at 50 °C rated value at 60 °C rated value | A A A | 77 68 59 |
| operational current for 3-phase motors at inside-delta circuit | | |
| <ul style="list-style-type: none"> at 40 °C rated value at 50 °C rated value at 60 °C rated value | A A A | 133 118 102 |
| yielded mechanical performance for 3-phase motors | | |
| <ul style="list-style-type: none"> at 230 V <ul style="list-style-type: none"> at standard circuit at 40 °C rated value at inside-delta circuit at 40 °C rated value at 400 V <ul style="list-style-type: none"> at standard circuit at 40 °C rated value at inside-delta circuit at 40 °C rated value | kW kW kW kW | 18.5 37 37 75 |
| yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value | hp | 20 |
| 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 |
| operating voltage at inside-delta circuit rated value | V | 200 ... 460 |
| relative negative tolerance of the operating voltage at inside-delta circuit | % | -15 |
| relative positive tolerance of the operating voltage at inside-delta circuit | % | 10 |
| minimum load [%] | % | 8 |
| adjustable motor current for motor overload protection minimum rated value | A | 15 |
| continuous operating current [% of I _e] at 40 °C | % | 115 |
| power loss [W] at operational current at 40 °C during operation typical | W | 45 |
| Control circuit/ Control | | |
| 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 at AC | | |
| • at 50 Hz rated value | V | 230 |
| • at 60 Hz rated value | V | 230 |
| 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 |
| display version for fault signal | | Display |
| Mechanical data | | |
| width | mm | 170 |
| height | mm | 192 |
| depth | mm | 270 |
| fastening method | | screw fixing |
| mounting position | | with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back |
| required spacing with side-by-side mounting | | |
| • upwards | mm | 100 |
| • at the side | mm | 5 |
| • downwards | mm | 75 |
| wire length maximum | m | 500 |
| number of poles for main current circuit | | 3 |
| Connections/ Terminals | | |
| type of electrical connection | | |
| • for main current circuit | | box terminal |
| • for auxiliary and control 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-sections for main contacts for box terminal using the front clamping point | | |
| • solid | | 2.5 ... 16 mm ² |

| | | |
|---|--|--|
| <ul style="list-style-type: none"> finely stranded with core end processing finely stranded without core end processing stranded | | 2.5 ... 35 mm ² 4 ... 50 mm ² 4 ... 70 mm ² |
| type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point <ul style="list-style-type: none"> solid finely stranded with core end processing finely stranded without core end processing stranded | | 2,5 ... 16 mm ² 2.5 ... 50 mm ² 10 ... 50 mm ² 10 ... 70 mm ² |
| type of connectable conductor cross-sections for main contacts for box terminal using both clamping points <ul style="list-style-type: none"> solid finely stranded with core end processing finely stranded without core end processing stranded | | 2x (2.5 ... 16 mm ²) 2x (2.5 ... 35 mm ²) 2x (4 ... 35 mm ²) 2x (4 ... 50 mm ²) |
| type of connectable conductor cross-sections at AWG cables for main contacts for box terminal <ul style="list-style-type: none"> using the back clamping point using the front clamping point using both clamping points | | 10 ... 2/0 10 ... 2/0 2x (10 ... 1/0) |
| type of connectable conductor cross-sections 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-sections at AWG cables <ul style="list-style-type: none"> for auxiliary contacts for auxiliary contacts finely stranded with core end processing | | 2x (20 ... 14) 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 | | 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 |
| <ul style="list-style-type: none"> during operation according to IEC 60721 | | 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 | 60 |
| | °C | -25 ... +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 |

Certificates/ approvals

| | |
|---------------------------------|-----|
| General Product Approval | EMC |
|---------------------------------|-----|



[Confirmation](#)



| | | |
|----------------------------------|--------------------------|--------------------------|
| Declaration of Conformity | Test Certificates | Marine / Shipping |
|----------------------------------|--------------------------|--------------------------|



EG-Konf.

[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)



ABS



BUREAU VERITAS



LRS



[Confirmation](#)

UL/CSA ratings

yielded mechanical performance [hp] for 3-phase AC motor

| | | |
|--|----------|----------|
| <ul style="list-style-type: none"> ● at 200/208 V <ul style="list-style-type: none"> — at inside-delta circuit at 50 °C rated value | hp | 30 |
| <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 inside-delta circuit at 50 °C rated value | hp hp | 20 40 |
| <ul style="list-style-type: none"> ● at 460/480 V <ul style="list-style-type: none"> — at standard circuit at 50 °C rated value — at inside-delta circuit at 50 °C rated value | hp hp | 50 75 |

contact rating of auxiliary contacts according to UL

B300 / R300

Further information

Simulation Tool for Soft Starters (STS)

<https://support.industry.siemens.com/cs/ww/en/view/101494917>

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=3RW4426-1BC44>

Cax online generator

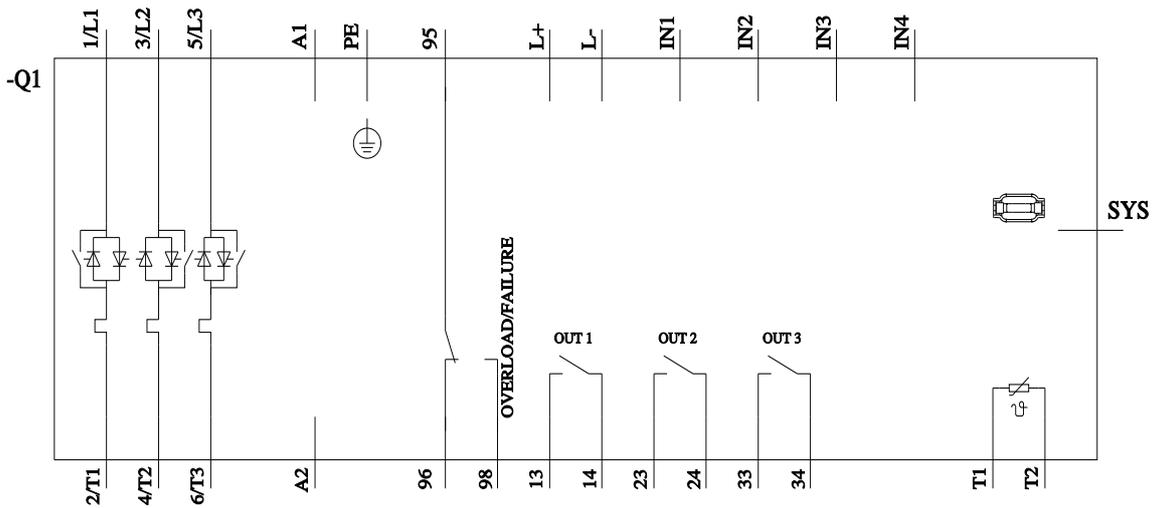
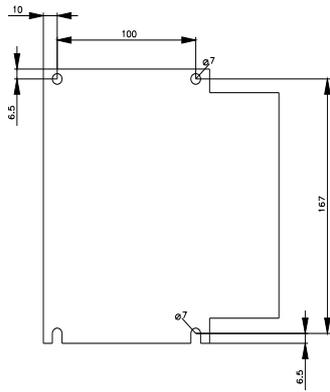
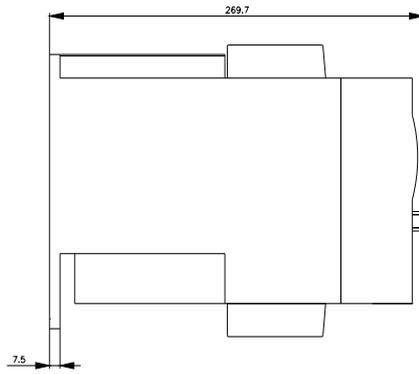
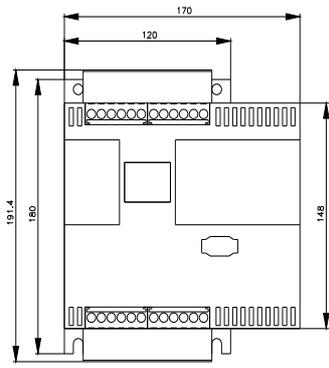
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4426-1BC44>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RW4426-1BC44>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4426-1BC44&lang=en



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