SIEMENS

## Product data sheet 3RW3044-1AB14

SIRIUS SOFT STARTER, SIZE S3, 63 A,
30 KW / 400 V, AC 200...460 V,
UC 110...230 V, SCREW CONNECTION

| General details: | | |
|---|---|---|
| **Product brand name** | | SIRIUS |
| **Product equipment** | | |
| • integrated bridging contact system | | Yes |
| • thyristors | | Yes |
| **Product function** | | |
| • intrinsic device protection | | No |
| • motor overload protection | | No |
| • evaluation of thermal resistor motor protection | | No |
| • Reset external | | No |
| • adjustable current limitation | | No |
| • inside-delta circuit | | No |
| **Product component / Outlet for enine brake** | | No |
| **Item designation** | | |
| • according to DIN EN 61346-2 | | Q |
| • according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 | | G |

| Power Electronics: | | |
|---|---|---|
| **Product designation** | | soft starters for standard applications |
| Operating current | | |


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| | | |
|---|---|---|
| • at 40 °C / rated value | A | 63 |
| • at 50 °C / rated value | A | 54 |
| • at 60 °C / rated value | A | 46 |
| **Emitted mechanical power / for three-phase servomotors** | | |
| • at 230 V / at standard switching / at 40 °C | | |
| • rated value | kW | 18.5 |
| • at 400 V / at standard switching / at 40 °C | | |
| • rated value | kW | 30 |
| **Yielded mechanical performance (hp) / for three-phase servomotors** | | |
| • at 200 V / at standard switching | | |
| • at 50 °C / rated value | hp | 15 |
| • at 230 V / at standard switching | | |
| • at 50 °C / rated value | hp | 20 |
| • at 460 V / at standard switching | | |
| • at 50 °C / rated value | hp | 40 |
| **Operating frequency** | | |
| • rated value | Hz | 50 … 60 |
| **Operating voltage / with standard circuit / rated value** | V | 200 … 460 |

## Control electronics:

| | | |
|---|---|---|
| **Type of voltage / of the controlled 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 50 Hz / for AC** | V | 110 … 230 |
| **Control supply voltage / 1 / at 60 Hz / for AC** | V | 110 … 230 |
| **Relative negative tolerance / of the control supply voltage / at 60 Hz / for AC** | % | -15 |
| **Relative positive tolerance / of the control supply voltage / at 60 Hz / for AC** | % | 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 |
| **Design of display / for fault signal** | | red |

## Mechanical design:

| | | |
|---|---|---|
| **Size of the engine control device** | | S3 |


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| | | |
|---|---|---|
| **Width** | mm | 70 |
| **Height** | mm | 170 |
| **Depth** | mm | 190 |
| **Type of fixing/fixation** | | screw and snap-on mounting |
| **built in orientation** | | With vertical mounting surface +/-10° rotatable, with vertical mounting surface +/- 10° tiltable to the front and back |
| **distance, to be maintained, to the ranks assembly** | | |
| • upwards | mm | 60 |
| • sidewards | mm | 30 |
| • downwards | mm | 40 |
| **Cable length / maximum** | m | 100 |
| **Number of poles / for main current circuit** | | 3 |

| **Electrical connections:** | | |
|---|---|---|
| **design of the electrical connection** | | |
| • for main current circuit | | screw-type terminals |
| • for auxiliary and control current circuit | | screw-type terminals |
| **Number of NC contacts / for auxiliary contact** | | 0 |
| **Number of NO contacts / for auxiliary contact** | | 2 |
| **Number of change-over switches / for auxiliary contact** | | 0 |
| **Type of the connectable conductor cross section / for main contacts / for box terminal / when using the front clamping point** | | |
| • solid | | 2x (2.5 ... 16 mm2) |
| • finely stranded / with wire end processing | | 2.5 ... 35 mm2 |
| • stranded | | 4 ... 70 mm2 |
| **Type of the connectable conductor cross section / for main contacts / for box terminal / when using the back clamping point** | | |
| • solid | | 2x (2.5 ... 16 mm2) |
| • finely stranded / with wire end processing | | 2.5 ... 50 mm2 |
| • stranded | | 10 ... 70 mm2 |
| **Type of the connectable conductor cross section / for main contacts / for box terminal / when using both clamping points** | | |
| • solid | | 2x (2.5 ... 16 mm2) |
| • finely stranded / with wire end processing | | 2x (2.5 ... 35 mm2) |
| • stranded | | 2x (10 ... 50 mm2) |
| **Type of the connectable conductor cross section / for AWG conductors / for main contacts / for box terminal** | | |


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| | | |
|---|---|---|
| • when using the back clamping point | | 10 ... 2/0 |
| • when using the front clamping point | | 10 ... 2/0 |
| • when using both clamping points | | 2x (10 ... 1/0) |
| **Type of connectable conductor cross section / for DIN cable lug / for main contacts** | | |
| • finely stranded | | 2 x (10 ... 50 mm2) |
| • stranded | | 2x (10 ... 70 mm2) |
| **Type of the connectable conductor cross-section** | | |
| • at AWG-conductors / for main contacts | | 2x (7 ... 1/0) |
| **Type of connectable conductor cross section** | | |
| • for auxiliary contacts | | |
| • solid | | 2x (0.5 ... 2.5 mm2) |
| • finely stranded / with wire end processing | | 2x (0.5 ... 1.5 mm2) |
| • for AWG conductors / for auxiliary contacts | | 2x (20 ... 14) |

## Ambient conditions:

| | | |
|---|---|---|
| **Ambient temperature** | | |
| • during the operating phase | °C | -25 … 60 |
| • during storage | °C | -40 … 80 |
| **Derating temperature** | °C | 40 |
| **Protection class IP** | | IP20 |

## Safety:

| | | |
|---|---|---|
| **Proportion of dangerous failures** | | |
| • with high demand rate / according to SN 31920 | % | 50 |
| • with low demand rate / according to SN 31920 | % | 20 |
| **Mean time to failure (MTTF) / with high demand rate** | | |
| • according to SN 31920 | a | 138 |
| **T1 value / for proof test interval or service life** | | |
| • according to IEC 61508 | a | 20 |

## Further information:

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

**Global Industry Mall (Online ordering system)**
http://www.siemens.com/industrial-controls/mall

**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**
http://support.automation.siemens.com/WW/view/en/3RW3044-1AB14/all

**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)**
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RW3044-1AB14


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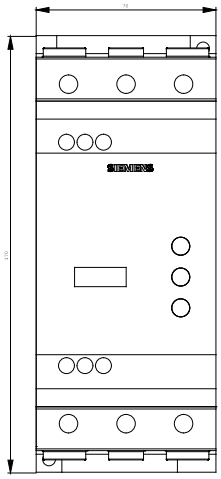


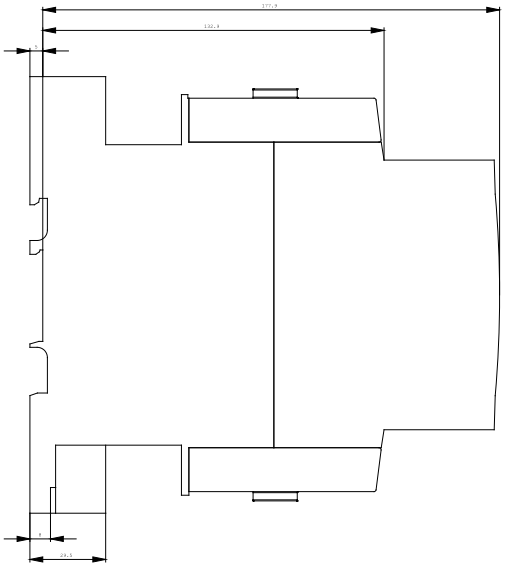

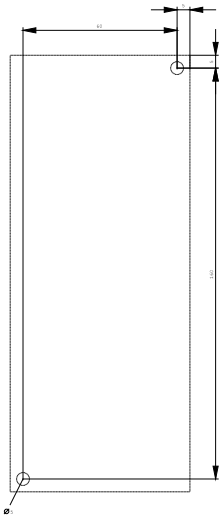

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