# **SIEMENS**

## Data sheet

# 3RW30 27-2BB14



SIRIUS SOFT STARTER, SIZE S0, 32A, 15KW/400V, 40 DEGREES, 200-480V AC, 110-230V AC/DC, SPRING-LOADED TERMINALS

| General technical data  |              |
|---|--------------|
| product brandname   | SIRIUS       |
| <ul> <li>Product equipment Integrated bypass contact</li> </ul> | Yes          |
| system  |              |
| <ul> <li>Product feature Thyristors</li> </ul>                  | Yes          |
| Product function  |              |
| <ul> <li>Intrinsic device protection</li> </ul>                 | No           |
| <ul> <li>motor overload protection</li> </ul>                   | No           |
| <ul> <li>Evaluation of thermistor motor protection</li> </ul>   | No           |
| • External reset  | No           |
| <ul> <li>Adjustable current limitation</li> </ul>               | No           |
| 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                    | G            |
| according to IEC 204-2 acc. to IEC 750                          |              |
| Power Electronics   |              |
| Product designation   | Soft starter |

| Operating current  |    |         |
|--|----|---------|
| • at 40 °C rated value   | А  | 32      |
| • at 50 °C rated value   | А  | 29      |
| • at 60 °C rated value   | А  | 26      |
| Mechanical power output for three-phase motors                           |    |         |
| • at 230 V   |    |         |
| — at standard circuit at 40 °C rated value                               | W  | 7 500   |
| • at 400 V   |    |         |
| — at standard circuit at 40 °C rated value                               | W  | 15 000  |
| Yielded mechanical performance [hp] for three-phase                      | hp | 7.5     |
| AC motor at 200/208 V at standard circuit at 50 °C rated value           |    |         |
| Operating frequency rated value  | Hz | 50 60   |
| Relative negative tolerance of the operating<br>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 [% of IM]   | %  | 10      |
| Continuous operating current [% of le] at 40 °C                          | %  | 115     |
| Power loss [W] at operating current at 40 °C during<br>operation typical | W  | 13      |
| 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 at AC at 50 Hz                                  | V  | 110 230 |
| Control supply voltage 1 at AC at 60 Hz                                  | V  | 110 230 |
| 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      |
| Control supply voltage 1 at DC   | V  | 110 230 |
| Relative negative tolerance of the control supply voltage at DC          | %  | -15     |
| Relative positive tolerance of the control supply                        | %  | 10      |

Relative positive tolerance of the control supply voltage at DC

| Display version for fault signal   |    | red  |  |
|--|----|--|--|
| Mechanical data  |    |  |  |
| Size of engine control device  |    | SO   |  |
| Width  | mm | 45   |  |
| Height   | mm | 150  |  |
| Depth  | mm | 150  |  |
| 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 | 15   |  |
| downwards  | mm | 40   |  |
| Wire length maximum  | m  | 300  |  |
| Number of poles for main current circuit   |    | 3  |  |
| Connections/Terminals  |    |  |  |
| Type of electrical connection  |    |  |  |
| <ul> <li>for main current circuit</li> </ul>   |    | spring-loaded terminals  |  |
| <ul> <li>for auxiliary and control current circuit</li> </ul>  |    | spring-loaded 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-sections for<br>main contacts for box terminal using the front<br>clamping point |    |  |  |
| • solid  |    | 2x (1 2.5 mm²), 2x (2.5 6 mm²)   |  |
| <ul> <li>finely stranded with core end processing</li> </ul>   |    | 2x (1 2.5 mm²), 2x (2.5 6 mm²)   |  |
| Type of connectable conductor cross-sections at<br>AWG conductors for main contacts for box terminal                 |    |  |  |
| <ul> <li>using the front clamping point</li> </ul>   |    | 1x 8, 2x (16 10)   |  |
| Type of connectable conductor cross-sections for<br>main contacts  |    |  |  |
| • solid  |    | 1 10 mm²   |  |
| <ul> <li>finely stranded with core end processing</li> </ul>   |    | 1 6 mm²  |  |
| Type of connectable conductor cross-sections for<br>auxiliary contacts   |    |  |  |
| • solid  |    | 2x (0.25 2.5 mm²)  |  |
| <ul> <li>finely stranded with core end processing</li> </ul>   |    | 2x (0.25 1.5 mm²)  |  |
| Type of connectable conductor cross-sections at<br>AWG conductors  |    |  |  |
| • for main contacts  |    | 16 8   |  |
|  |    |  |  |

| Ambient conditions                              |    |   |  |  |
|---|----|---|--|--|
| Installation altitude at height above sea level |    | 5 000   |  |  |
| Environmental category                          | _  |   |  |  |
| • during transport acc. to IEC 60721            |    | 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6   |  |  |
| • during storage acc. to IEC 60721              |    | 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6   |  |  |
| • during operation acc. 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                             | _  |   |  |  |
| • during operation                              | °C | -25 +60   |  |  |
| • during storage                                | °C | -40 +80   |  |  |
| Derating temperature                            | °C | 40  |  |  |
| Protection class IP                             |    | IP20  |  |  |
| Certificates/approvals                          |    |   |  |  |
| General Product Approval                        |    | EMC Declaration of Conformity   |  |  |
|   | E  | HE $kinetic c-Tick$ $ki$ |  |  |

| Test<br>Certificates                  | other         |                                |              |
|---------------------------------------|---------------|--------------------------------|--------------|
| <u>Type Test</u><br>Certificates/Test | Miscellaneous | Environmental<br>Confirmations | Confirmation |
| Report                                |               |                                |              |

| UL/CSA ratings                                       |    |             |
|--|----|-------------|
| Yielded mechanical performance [hp] for three-phase  |    |             |
| AC motor   |    |             |
| ● at 220/230 V                                       |    |             |
| — at standard circuit at 50 °C rated value           | hp | 7.5         |
| ● at 460/480 V                                       |    |             |
| — at standard circuit at 50 °C rated value           | hp | 20          |
| Contact rating of auxiliary contacts according to UL |    | B300 / R300 |

#### <sup>-</sup>urther information

Simulation Tool for Soft Starters (STS) https://support.industry.siemens.com/cs/ww/en/view/101494917

#### Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/industrial-controls/catalogs

### Industry Mall (Online ordering system)

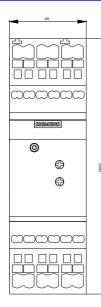
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW3027-2BB14

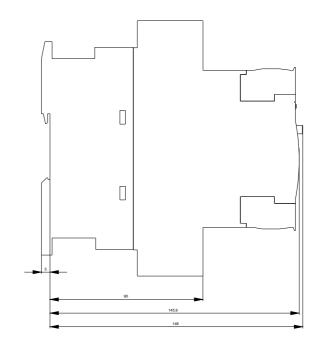
## Cax online generator

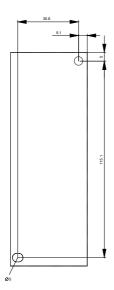
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW3027-2BB14

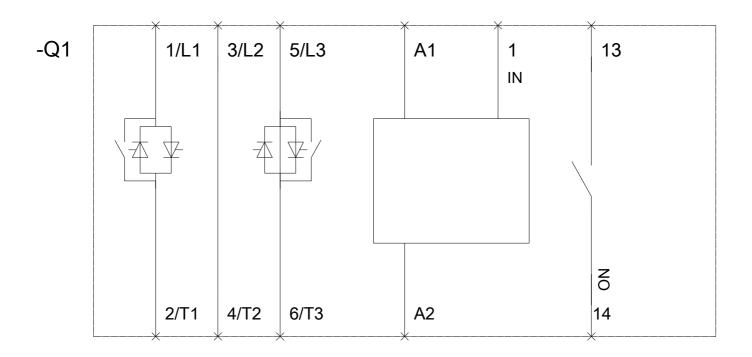
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RW3027-2BB14

#### Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW3027-2BB14&lang=en\_\_\_\_\_









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