



SOLID-STATE TIME RELAY OFF-DELAY WITH AUXILIARY VOLTAGE AND SEMICONDUCTOR OUTPUT 24...240V AC/DC TIME RANGE 0.05...100S FOR SNAPPING ONTO THE FRONT;  
FOR 3RT2 CONTACTORS SPRING-LOADED TERMINALS

**General technical data:**

|  |                                    |   |
|--|------------------------------------|---|
| product brand name   | SIRIUS                             |   |
| product designation  | timing relay                       |   |
| Design of the product  | off-delayed with auxiliary voltage |   |
| Size of the contactor / can be combined                      | S00, S0                            |   |
| • company-specific   |                                    |   |
| Protection class IP / on the front                           | IP20                               |   |
| Protection class IP / of the terminal                        | IP20                               |   |
| Degree of pollution  | 3                                  |   |
| Insulation voltage / with degree of pollution 3              | V                                  | 300                                     |
| • rated value  |                                    |   |
| Installation altitude / at a height over sea level / maximum | m                                  | 2,000                                   |
| Ambient temperature  | °C                                 | -40 ... +85                             |
| • during storage   |                                    | -40 ... +85                             |
| • during operating   |                                    | -25 ... +60                             |
| • during transport   |                                    | -40 ... +85                             |
| EMC immunity to interference                                 |                                    | ambience A (industrial sector)          |
| • according to IEC 60947-1                                   |                                    |   |
| EMC emitted interference                                     |                                    | CISPR11, ambience A (industrial sector) |
| • according to IEC 60947-1                                   |                                    |   |

|  |    |   |
|--|----|---|
| <b>Conductor-bound parasitic coupling BURST</b>                            |    | 2 kV network connection / 1 kV control connection |
| • according to IEC 61000-4-4   |    |   |
| <b>Conductor-bound parasitic coupling conductor-earth SURGE</b>            |    | 2 kV  |
| • according to IEC 61000-4-5   |    |   |
| <b>Conductor-bound parasitic coupling conductor-conductor SURGE</b>        |    | 1 kV  |
| • according to IEC 61000-4-5   |    |   |
| <b>Electrostatic discharge</b>   |    | 8 kV  |
| • according to IEC 61000-4-2   |    |   |
| <b>Field-bound parasitic coupling</b>                                      |    | 10 V/m  |
| • according to IEC 61000-4-3   |    |   |
| <b>Resistance against shock</b>  |    | 15g / 11 ms                                       |
| <b>Resistance against vibration</b>  |    | 10 ... 55 Hz / 0.35 mm                            |
| <b>Impulse voltage resistance / rated value</b>                            | kV | 4   |
| <b>Item designation</b>  |    |   |
| • according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 |    | K   |
| • according to DIN EN 61346-2  |    | K   |
| <b>Adjustable time</b>   | s  | 0.05 ... 100                                      |
| <b>Switching function</b>  |    |   |
| • slow-operating   |    | No  |
| • relapse delayed  |    | Yes   |
| • with auxiliary voltage   |    |   |
| • relapse delayed  |    | Yes   |
| • without auxiliary voltage / relapse delayed                              |    | No  |
| • with auxiliary voltage / pulse-shaping                                   |    | No  |
| <b>Product component / semi-conductor output</b>                           |    | Yes   |
| <b>Product extension</b>   |    |   |
| • optional / remote control  |    | No  |
| • strictly required / remote control                                       |    | No  |
| <b>Product function</b>  |    |   |
| • star-delta circuit   |    | No  |
| <b>Control circuit:</b>  |    |   |
| <b>Design of the surge suppressor</b>                                      |    | with varistor                                     |
| <b>Supply voltage / strictly required</b>                                  |    |   |
| • auxiliary voltage  |    | Yes   |
| <b>Type of voltage</b>   |    |   |
| • of the controlled supply voltage   |    | AC/DC   |
| <b>Control supply voltage frequency / 1</b>                                | Hz | 50 ... 60   |
| <b>Control supply voltage / 1</b>  |    |   |

|  |   |            |
|--|---|------------|
| • for DC   | V | 24 ... 240 |
| • at 50 Hz / for AC  | V | 24 ... 240 |
| • at 60 Hz / for AC  | V | 24 ... 240 |
| <b>Operating range factor control supply voltage rated value</b> |   |            |

- of the solenoid 0.85 ... 1.1

### Auxiliary circuit:

|  |   |     |
|--|---|-----|
| <b>Operating current / of the auxiliary contacts</b> |   |     |
| • at AC-140 / at 250 V                               | A | 0.4 |
| • at DC-13   |   |     |
| • at 24 V  | A | 0.4 |
| • at 125 V   | A | 0.4 |
| • at 250 V   | A | 0.4 |

### Installation/mounting/dimensions:

|  |    |         |
|--|----|---------|
| <b>mounting position</b>                                 |    | any     |
| <b>Type of mounting</b>                                  |    | clip-on |
| <b>Width</b>   | mm | 45      |
| <b>Height</b>  | mm | 38      |
| <b>Depth</b>   | mm | 74      |
| <b>Distance, to be maintained, to the ranks assembly</b> |    |         |
| • upwards  | mm | 0       |
| • downwards  | mm | 0       |
| • forwards   | mm | 0       |
| • backwards  | mm | 0       |
| • sidewards  | mm | 0       |
| <b>Distance, to be maintained, to earthed part</b>       |    |         |
| • upwards  | mm | 0       |
| • downwards  | mm | 0       |
| • forwards   | mm | 0       |
| • backwards  | mm | 0       |
| • sidewards  | mm | 0       |
| <b>Distance, to be maintained, conductive elements</b>   |    |         |
| • upwards  | mm | 0       |
| • downwards  | mm | 0       |
| • forwards   | mm | 0       |
| • backwards  | mm | 0       |
| • sidewards  | mm | 0       |

### Connections:

|  |  |  |
|--|--|--|
| <b>Design of the electrical connection</b> |  |  |
|--|--|--|

|  |  |  |
|--|--|--|
| • for auxiliary and control current circuit            |  | screw-type terminals   |
| <b>Product function</b>                                |  |  |
| • removable terminal for auxiliary and control circuit |  | Yes  |
| <b>Type of the connectable conductor cross-section</b> |  |  |
| • for auxiliary contacts                               |  |  |
| • solid  |  | 0.5 ... 4 mm <sup>2</sup> , 2x (0.5 ... 2.5 mm <sup>2</sup> )        |
| • finely stranded                                      |  |  |
| • with conductor end processing                        |  | 1x (0.5 ... 2.5 mm <sup>2</sup> ), 2x (0.5 ... 1.5 mm <sup>2</sup> ) |
| • for AWG conductors / for auxiliary contacts          |  | 2x (20 ... 14)   |

#### Certificates/approvals:

|                                    |  |               |
|------------------------------------|--|---------------|
| <b>Verification of suitability</b> |  | CE / UL / CSA |
| • EC declaration of conformity     |  | Yes           |
| • CSA-approval                     |  | Yes           |
| • UL-registration                  |  | Yes           |

| General Product Approval   | Test Certificates                                  |
|--|--|
|  CSA  | <a href="#">Special Test Certificate</a>           |
|  GOST | <a href="#">Type Test Certificates/Test Report</a> |
|  UL   |  |

#### Shipping Approval

|   |   |  |   |  |
|---|---|--|---|--|
|  ABS |  DNV |  GL |  LRS |  RMRS |
|---|---|--|---|--|

#### other

[Declaration of Conformity](#)      [other](#)

#### Further information:

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

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

##### Industry Mall (Online ordering system)

<http://www.siemens.com/industrial-controls/mall>

##### CAx-Online-Generator

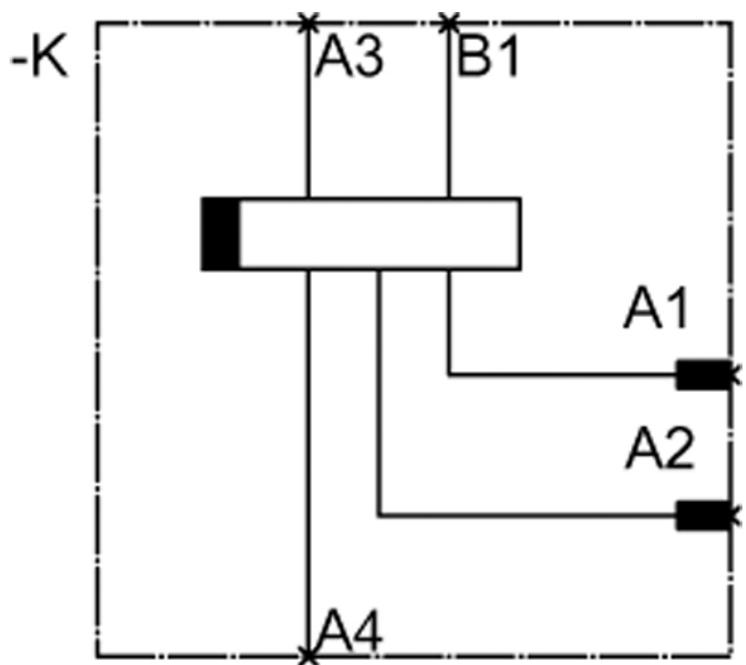
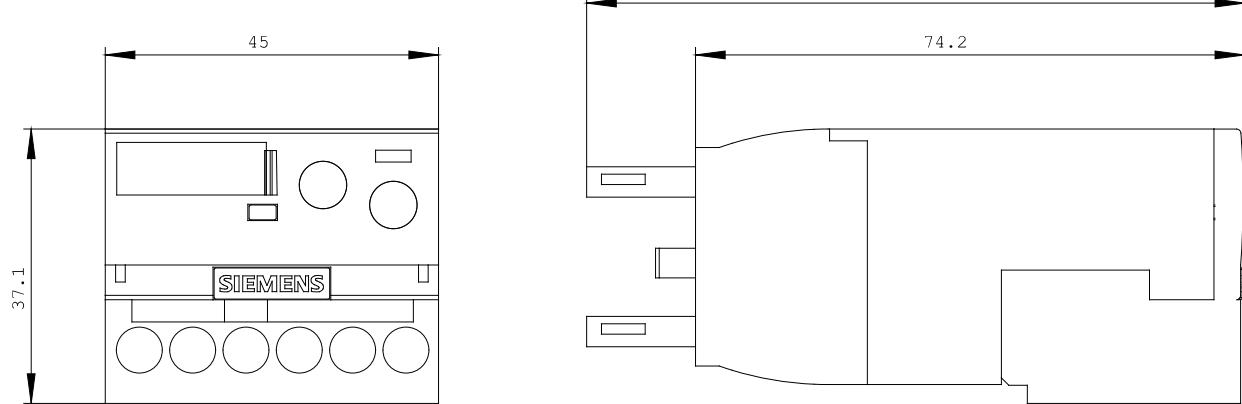
<http://www.siemens.com/cax>

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

<http://support.automation.siemens.com/WW/view/en/3RA2812-1DW10/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3RA2812-1DW10](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RA2812-1DW10)



last change:

Apr 13,  
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