



TIME RELAY,  
SOLID-STATE MULTI-FUNCTION 2 CHANGEOVER  
CONTACTS,  
7 FUNCTIONS,  
7 TIME SETTING RANGES 0.05S...100H,  
AC/DC 12... 240 V, WITH LED,  
SCREW TERMINAL

### General technical data:

|                                                                     |   |                  |
|---------------------------------------------------------------------|---|------------------|
| <b>product brand name</b>                                           |   | SIRIUS           |
| <b>Product designation</b>                                          |   | timing relay     |
| <b>Adjustable time</b>                                              | s | 0.05 ... 360,000 |
| <b>Protection class IP</b>                                          |   |                  |
| • on the front                                                      |   | IP40             |
| • of the terminal                                                   |   | IP20             |
| <b>Resistance against shock</b>                                     |   | 15g / 11 ms      |
| <b>Degree of pollution</b>                                          |   | 2                |
| <b>mounting position</b>                                            |   | any              |
| <b>Supply voltage / strictly required / auxiliary voltage</b>       |   | Yes              |
| <b>Product function</b>                                             |   |                  |
| • star-delta circuit                                                |   | No               |
| • with auxiliary voltage / pulse-shaping                            |   | No               |
| • at the relay outputs / changeover delayed/without delay           |   | No               |
| <b>Product component / semi-conductor output</b>                    |   | No               |
| <b>Product extension</b>                                            |   |                  |
| • optional / remote control                                         |   | No               |
| • strictly required / remote control                                |   | No               |
| <b>Installation altitude / at a height over sea level / maximum</b> | m | 2,000            |

|                                                                                                  |    |                                                   |
|--------------------------------------------------------------------------------------------------|----|---------------------------------------------------|
| <b>Ambient temperature</b>                                                                       |    |                                                   |
| • during storage                                                                                 | °C | -40 ... +70                                       |
| • during operating                                                                               | °C | -25 ... +55                                       |
| • during transport                                                                               | °C | -40 ... +70                                       |
| <b>Relative humidity</b>                                                                         |    |                                                   |
| • during operating phase                                                                         | %  | 15 ... 85                                         |
| <b>EMC immunity to interference / according to IEC 60947-1</b>                                   |    | corresponds to degree of severity 3               |
| <b>EMC emitted interference / according to IEC 60947-1</b>                                       |    | IEC61000-6-3 (residential area)                   |
| <b>Conductor-bound parasitic coupling BURST / according to IEC 61000-4-4</b>                     |    | 2 kV network connection / 1 kV control connection |
| <b>Conductor-bound parasitic coupling conductor-earth SURGE / according to IEC 61000-4-5</b>     |    | 2 kV                                              |
| <b>Conductor-bound parasitic coupling conductor-conductor SURGE / according to IEC 61000-4-5</b> |    | 1 kV                                              |
| <b>Electrostatic discharge / according to IEC 61000-4-2</b>                                      |    | 4 kV contact discharge / 8 kV air discharge       |
| <b>Field-bound parasitic coupling / according to IEC 61000-4-3</b>                               |    | 10 V/m                                            |
| <b>Resistance against vibration</b>                                                              |    | 10 ... 55 Hz / 0.35 mm                            |
| <b>Impulse voltage resistance / rated value</b>                                                  | V  | 4,000                                             |
| <b>Insulation voltage / rated value</b>                                                          | V  | 300                                               |
| <b>Active power loss / total / typical</b>                                                       | W  | 2                                                 |
| <b>Reference code</b>                                                                            |    |                                                   |
| • according to DIN 40719 extended according to IEC 204-2 / according to IEC 750                  |    | K                                                 |
| • according to DIN EN 61346-2                                                                    |    | K                                                 |

#### Switching Function:

|                                              |  |     |
|----------------------------------------------|--|-----|
| <b>Switching function</b>                    |  |     |
| • making pulse contact                       |  | Yes |
| • firmly clocked beginning with pulse        |  | No  |
| • impuls variably clocked start with pause   |  | No  |
| • relapse delayed                            |  | No  |
| • variably clocked start with impulse        |  | No  |
| • with control signal                        |  |     |
| • passing break contact                      |  | Yes |
| • OFF delay                                  |  | Yes |
| • slow-operating/instantaneous contact       |  | No  |
| • making pulse contact/instantaneous contact |  | No  |
| • firmly clocked beginning with pause        |  | Yes |
| • with control signal                        |  |     |
| • additive ON delay                          |  | No  |
| • passing break contact/instantaneous        |  | No  |

|                                                                        |     |
|------------------------------------------------------------------------|-----|
| • without control signal / OFF delay                                   | No  |
| • slow-operating                                                       | Yes |
| • with control signal                                                  |     |
| • OFF delay/instantaneous                                              | No  |
| • ON delay/OFF delay/instantaneous                                     | No  |
| • firmly clocked beginning with pause/instantaneous contact            | No  |
| Switching function / with control signal / pulse-shaping/instantaneous | No  |
| • with control signal                                                  |     |
| • pulse-shaping                                                        | No  |
| • ON-delay/instantaneous                                               | No  |

#### Control circuit:

|                                                                                    |    |            |
|------------------------------------------------------------------------------------|----|------------|
| <b>Voltage type / of control feed voltage</b>                                      |    | AC/DC      |
| <b>Control supply voltage frequency / 1</b>                                        |    |            |
| • initial rated value                                                              | Hz | 50         |
| • final rated value                                                                | Hz | 60         |
| <b>Control supply voltage / 1</b>                                                  |    |            |
| • at 50 Hz / for AC                                                                | V  | 12 ... 240 |
| • at 60 Hz / for AC                                                                | V  | 12 ... 240 |
| • for DC                                                                           | V  | 12 ... 240 |
| <b>Operating range factor control supply voltage rated value / of the solenoid</b> |    |            |
| • initial value                                                                    |    | 0.85       |
| • final value                                                                      |    | 1.1        |

#### Auxiliary circuit:

|                                                      |   |      |
|------------------------------------------------------|---|------|
| <b>Operating current / of the auxiliary contacts</b> |   |      |
| • at AC-15 / at 24 V                                 | A | 3    |
| • at AC-15 / at 250 V                                | A | 3    |
| • at DC-13                                           |   |      |
| • at 24 V                                            | A | 1    |
| • at 125 V                                           | A | 0.22 |
| • at 250 V                                           | A | 0.1  |
| • maximum                                            | A | 1    |
| <b>Number of NC contacts</b>                         |   |      |
| • delayed switching                                  |   | 0    |
| • non-delayed                                        |   | 0    |
| <b>Number of NO contacts</b>                         |   |      |
| • delayed switching                                  |   | 0    |
| • non-delayed                                        |   | 0    |
| <b>Number of change-over switches</b>                |   |      |

- delayed switching
- non-delayed

2  
0

#### Short-circuit:

**Design of the fuse link / for short-circuit protection of the auxiliary switch / required**

fuse gL/gG: 4 A

#### Installation/mounting/dimensions:

##### Mounting type

snap-on fastening on 35 mm standard rail

##### Width

mm 17.5

##### Height

mm 90

##### Depth

mm 66.7

##### Distance, to be maintained, to the ranks assembly

- upwards
- downwards
- forwards
- backwards
- sideways

mm 0  
mm 0  
mm 0  
mm 0  
mm 0

##### Distance, to be maintained, to earthed part

- upwards
- downwards
- forwards
- backwards
- sideways

mm 0  
mm 0  
mm 0  
mm 0  
mm 0

##### Distance, to be maintained, conductive elements

- upwards
- downwards
- forwards
- backwards
- sideways

mm 0  
mm 0  
mm 0  
mm 0  
mm 0

#### Connections:

##### Design of the electrical connection

- jumper socket
- for auxiliary and control current circuit

No  
screw-type terminals

##### Type of the connectable conductor cross-section

- for auxiliary contacts
  - solid
  - finely stranded
    - with conductor end processing
    - without conductor final cutting

1x (0.2 ... 2.5 mm²)  
  
0.25 ... 1.5 mm²  
1x (0.2 ... 1.5 mm²)

|                                                                     |                 |                |
|---------------------------------------------------------------------|-----------------|----------------|
| • for AWG conductors / for auxiliary contacts                       |                 | 1x (24 ... 14) |
| <b>Connectable conductor cross-section / for auxiliary contacts</b> |                 |                |
| • single- or multi-stranded                                         | mm <sup>2</sup> | 0.2 ... 2.5    |
| • finely stranded                                                   |                 |                |
| • with conductor end processing                                     | mm <sup>2</sup> | 0.25 ... 1.5   |
| • without conductor final cutting                                   | mm <sup>2</sup> | 0.2 ... 1.5    |
| <b>AWG number / as coded connectable conductor cross-section</b>    |                 |                |
| • for auxiliary contact                                             |                 | 14 ... 24      |

#### Certificates/approvals:

##### Verification of suitability

CE

##### General Product Approval

##### Declaration of Conformity



#### Safety:

##### Category / according to EN 954-1

none

##### Protection against electrical shock

finger-safe

#### 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:

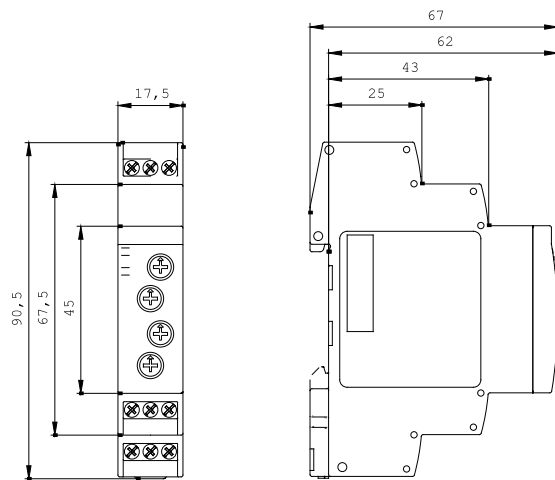
<http://www.siemens.com/cax>

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

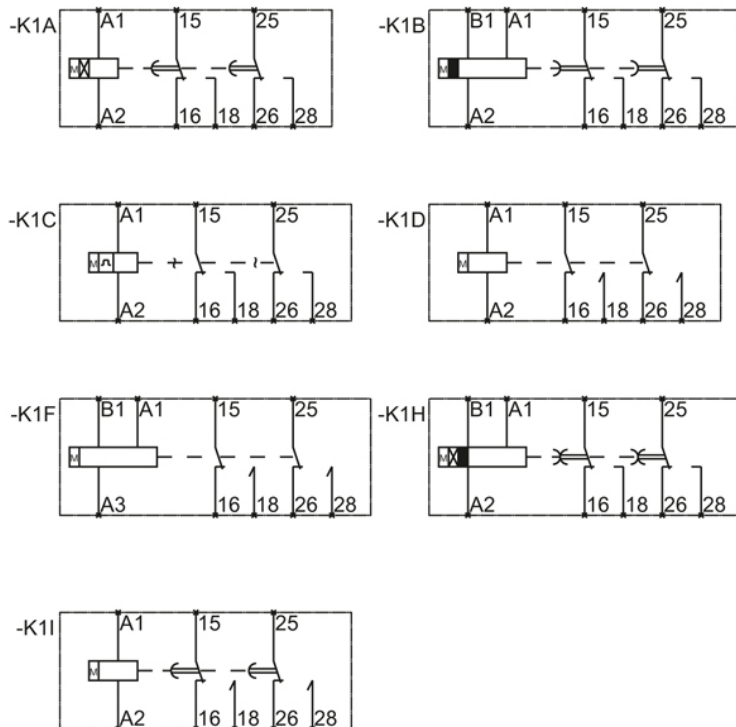
<http://support.automation.siemens.com/WW/view/en/7PV1508-1BW30/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=7PV1508-1BW30](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=7PV1508-1BW30)



Alle Bemessungswerte sind in Millimeter (mm) angegeben  
All dimensions are in millimeters (mm)



last change:

Jun 16, 2014