SIEMENS

## Product data sheet 7PV1558-1AW30

TIME RELAY,
CLOCK-PULSE RELAY 7 TIME SETTING RANGES,
0,05S...100H, AC/DC 12... 240V,
WITH LED .

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

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

## Switching Function:

| | | |
|---|---|---|
| Switching function | | |
| • making pulse contact | | No |
| • firmly clocked beginning with pulse | | No |
| • impuls variably clocked start with pause | | Yes |
| • relapse delayed | | No |
| • variably clocked start with impulse | | No |
| • with auxiliary voltage | | |
| • temporary line fault | | No |
| • relapse delayed | | No |
| • slow-operating/instantaneous contact | | No |
| • making pulse contact/instantaneous contact | | No |
| • firmly clocked beginning with pause | | No |
| • with auxiliary voltage | | |
| • in an additive way slow-operating | | No |
| • temporary line fault/instantaneous contact | | No |

| | | |
|---|---|---|
| • without auxiliary voltage / relapse delayed | | No |
| • slow-operating | | No |
| • with auxiliary voltage | | |
| • relapse delayed/instantaneous contact | | No |
| • slow-operating/relapse delayed/instantaneous contact | | No |
| • firmly clocked beginning with pause/instantaneous contact | | No |
| Switching function / with auxiliary voltage / pulse modelling/instantaneous contact | | No |
| • with auxiliary voltage | | |
| • pulse-shaping | | No |
| • slow-operating/instantaneous contact | | No |

| **Control circuit:** | | |
|---|---|---|
| **Type of voltage / of the controlled supply voltage** | | AC/DC |
| **Control supply voltage frequency / 1** | | |
| • initial rated value | Hz | 50 |
| • final rated value | Hz | 60 |
| **Control supply voltage / 1** | | |
| • at 50 Hz / for AC | V | 12 … 240 |
| • at 60 Hz / for AC | V | 12 … 240 |
| • for DC | V | 12 … 240 |
| **Operating range factor control supply voltage rated value / of the solenoid** | | |
| • initial value | | 0.85 |
| • final value | | 1.1 |

| **Auxiliary circuit:** | | |
|---|---|---|
| **Operating current / of the auxiliary contacts** | | |
| • 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 |
| **Number of NC contacts** | | |
| • delayed switching | | 0 |
| • non-delayed | | 0 |
| **Number of NO contacts** | | |
| • delayed switching | | 0 |
| • non-delayed | | 0 |

| | | |
|---|---|---|
| **Number of change-over switches** | | |
| • delayed switching | | 1 |
| • non-delayed | | 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:

| | | |
|---|---|---|
| **Type of mounting** | | 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 | mm | 0 |
| • downwards | mm | 0 |
| • forwards | mm | 0 |
| • backwards | mm | 0 |
| • sidewards | mm | 0 |
| **Distance, to be maintained, to earthed part** | | |
| • upwards | mm | 0 |
| • downwards | mm | 0 |
| • forwards | mm | 0 |
| • backwards | mm | 0 |
| • sidewards | mm | 0 |
| **Distance, to be maintained, conductive elements** | | |
| • upwards | mm | 0 |
| • downwards | mm | 0 |
| • forwards | mm | 0 |
| • backwards | mm | 0 |
| • sidewards | mm | 0 |

## Connections:

| | | |
|---|---|---|
| **Design of the electrical connection** | | |
| • jumper socket | | No |
| • for auxiliary and control current circuit | | screw-type terminals |
| **Type of the connectable conductor cross-section** | | |
| • for auxiliary contacts | | |
| • solid | | 1x (0.2 ... 2.5 mm²) |
| • finely stranded | | |
| • with conductor end processing | | 0.25 ... 1.5 mm² |

| | | |
|---|---|---|
| • without conductor final cutting | | 1x (0.2 ... 1.5 mm²) |
| • for AWG conductors / for auxiliary contacts | | 1x (24 ... 14) |
| **Conductor cross-section that can be connected / for auxiliary contact** | | |
| • solid | mm² | 0.2 … 2.5 |
| • stranded wire | | |
| • with conductor end processing | mm² | 0.25 … 1.5 |
| • without conductor final cutting | mm² | 0.2 … 1.5 |
| **AWG number / as coded connectable conductor cross-section** | | |
| • for auxiliary contact | | 14 … 24 |

## Certificates/approvals:

| | | |
|---|---|---|
| **Verification of suitability** | | CE |

| **General Product Approval** | **other** | |
|---|---|---|
| CCC UL | Confirmation | Declaration of Conformity |

## Safety:

| | | |
|---|---|---|
| **Category / according to EN 954-1** | | none |
| **Protection against electrical shock** | | finger-safe |

## Further information:

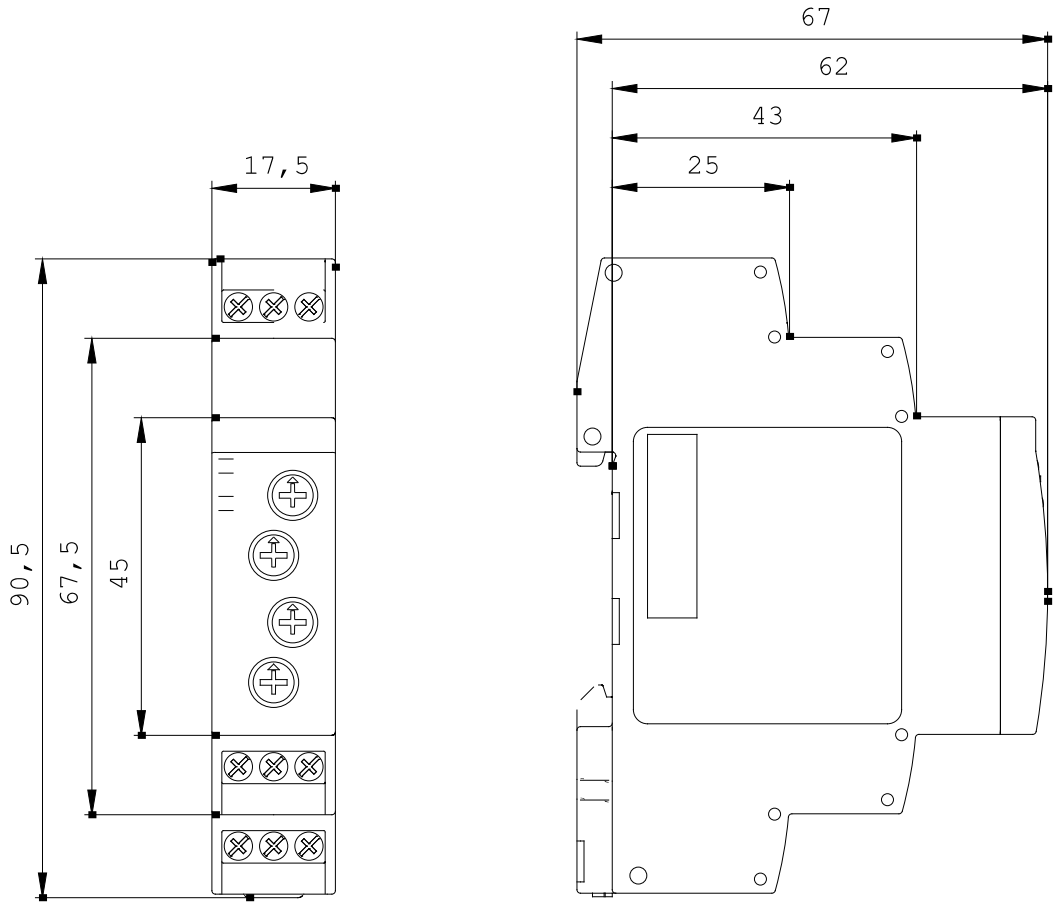
**Information- and Downloadcenter (Catalogs, Brochures,…)**
http://www.siemens.com/industrial-controls/catalogs

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

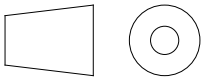
**Cax online generator:**
http://www.siemens.com/cax

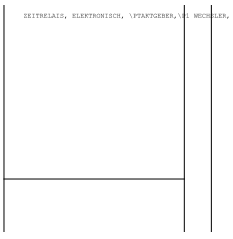
**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**
http://support.automation.siemens.com/WW/view/en/7PV1558-1AW30/all

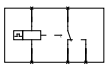
**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)**
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=7PV1558-1AW30




Alle Bemassungswerte sind in Millimeter (mm) a
All dimensions are in millimeters (mm)





**last change:** Apr 9, 2012