SIEMENS

Data sheet 7PV1518-1AW30

Timing relay, electronic ON delay 1 change-over contact, 7 time ranges 0.05 s...100 h 12-240 V AC/DC wide voltage range Screw terminal



| Product brand name | SIRIUS |
|--------------------------|----------------|
| Product designation | timing relay |
| Design of the product | slow-operating |
| Product type designation | 7PV15 |

| General technical data | |
|--|-------------|
| Product component | |
| semi-conductor output | No |
| Product extension required remote control | No |
| Product extension optional remote control | No |
| Power loss [W] total typical | 2 W |
| Test voltage for isolation test | 2.2 kV |
| Degree of pollution | 2 |
| Surge voltage resistance rated value | 4 000 V |
| Test voltage for surge voltage test | 4 800 V |
| Protection class IP | IP20 |
| Shock resistance | |
| • acc. to IEC 60068-2-27 | 11g / 15 ms |
| Mechanical service life (switching cycles) | |
| • typical | 10 000 000 |

| 100 000 |
|----------------------------------|
| 0.05 s 100 h |
| 5 % |
| 35 ms |
| 500 ms |
| К |
| |
| К |
| К |
| 2 % |
| |
| |
| AC/DC |
| AC/DC |
| AC/DC 12 240 V |
| |
| 12 240 V |
| 12 240 V 12 240 V |
| 12 240 V 12 240 V |
| 12 240 V 12 240 V 50 60 Hz |
| 12 240 V 12 240 V 50 60 Hz |
| |

| Operating range factor control supply voltage rated value at AC at 50 Hz | |
|--|------|
| ● initial value | 0.85 |
| Full-scale value | 1.1 |
| Operating range factor control supply voltage rated value at AC at 60 Hz | |
| ● initial value | 0.85 |
| Full-scale value | 1.1 |
| | |

| Switching Function | |
|---|-----|
| Switching function | |
| ON-delay | Yes |
| ON-delay/instantaneous contact | No |
| passing make contact | No |
| passing make contact/instantaneous contact | No |
| OFF delay | No |
| Switching function | |
| flashing symmetrically starting with | No |
| interval/instantaneous | |
| flashing symmetrically starting with interval | No |

| flashing symmetrically starting with pulse/instantaneous | No |
|--|-----------------|
| flashing symmetrically starting with pulse | No |
| flashing asymmetrically starting with interval | No |
| flashing asymmetrically starting with pulse | No |
| Switching function | |
| star-delta circuit with delay time | No |
| star-delta circuit | No |
| Switching function with control signal | |
| additive ON delay | No |
| passing break contact | No |
| passing break contact/instantaneous | No |
| OFF delay | No |
| OFF delay/instantaneous | No |
| pulse delayed | No |
| pulse delayed/instantaneous | No |
| pulse-shaping | No |
| pulse-shaping/instantaneous | No |
| additive ON delay/instantaneous | No |
| ON-delay/OFF-delay | No |
| ON-delay/OFF-delay/instantaneous | No |
| passing make contact | No |
| passing make contact/instantaneous contact | No |
| Switching function of interval relay with control signal | |
| retrotriggerable with deactivated control signal/instantaneous contact | No |
| retrotriggerable with activated control signal | No |
| retrotriggerable with activated control signal/instantaneous contact | No |
| retriggerable with deactivated control signal | No |
| Design of the control terminal non-floating | Yes |
| Short-circuit protection | |
| Design of the fuse link | |
| for short-circuit protection of the auxiliary switch required | fuse gL/gG: 4 A |
| Auxiliary circuit | |
| Material of switching contacts | AgSnO2 |
| Number of NC contacts | |
| delayed switching | 0 |
| • instantaneous contact | 0 |
| Number of NO contacts | |

| delayed switching | 0 |
|---|--|
| • instantaneous contact | 0 |
| Number of CO contacts | |
| delayed switching | 1 |
| • instantaneous contact | 0 |
| Operating current of auxiliary contacts at AC-15 | |
| • maximum | 3 A |
| ● at 24 V | 3 A |
| ● at 250 V | 3 A |
| Operating current of auxiliary contacts as NC contact at AC-15 | |
| • at 24 V | 3 A |
| ● at 250 V | 3 A |
| Operating current of auxiliary contacts as NO contact at AC-15 | |
| • at 24 V | 3 A |
| ● at 250 V | 3 A |
| Operating current of auxiliary contacts at DC-13 | 1 0.01 |
| Operating current of auxiliary contacts at DC-13 | |
| ● at 24 V | 1 A |
| ● at 125 V | 0.22 A |
| ● at 250 V | 0.1 A |
| Operating frequency with 3RT2 contactor maximum | 5 000 1/h |
| Contact reliability of auxiliary contacts | one incorrect switching operation of 100 million switching operations (17 V, 5 mA) |
| Contact rating of auxiliary contacts according to UL | R150 / B300 |
| Influence of the surrounding temperature | 2% in complete temperature range for the set duration |
| Power supply influence | 2% in complete voltage range for the set duration |
| Switching capacity current with inductive load | 0.01 3 A |
| Inputs/ Outputs | |
| Product function | |
| at the relay outputs Switchover delayed/without delay | No |
| • non-volatile | No |
| Electromagnetic compatibility | |
| EMI immunity | |
| • acc. to IEC 61812-1 | EN 61000-6-2 |
| Conducted interference | |
| • due to burst acc. to IEC 61000-4-4 | 2 kV network connection / 1 kV control connection |
| due to conductor-earth surge acc. to IEC 61000-4-5 | 2 kV |
| | |

| due to conductor-conductor surge acc. to IEC 61000-4-5 | 1 kV |
|--|---|
| Field-bound parasitic coupling acc. to IEC 61000-4-3 | 10 V/m |
| Electrostatic discharge acc. to IEC 61000-4-2 | 4 kV contact discharge / 8 kV air discharge |

| Safety related data | |
|-------------------------------------|------------------|
| Protection against electrical shock | finger-safe |
| Type of insulation | Basic insulation |
| Category acc. to EN 954-1 | none |

| Connections/Terminals | |
|--|-------------------------|
| Product function | |
| removable terminal for auxiliary and control | No |
| circuit | |
| Type of electrical connection | |
| for auxiliary and control current circuit | screw-type terminals |
| Type of connectable conductor cross-sections | |
| • solid | 1x (0.2 2.5 mm²) |
| finely stranded with core end processing | 1x (0.25 1.5 mm²) |
| finely stranded without core end processing | 1x (0.2 1.5 mm²) |
| at AWG conductors solid | 1x (24 14) |
| at AWG conductors stranded | 1x (24 14) |
| Connectable conductor cross-section | |
| • solid | 0.2 2.5 m ² |
| finely stranded with core end processing | 0.25 1.5 m ² |
| finely stranded without core end processing | 0.2 1.5 m ² |
| AWG number as coded connectable conductor cross | |
| section | |
| • solid | 24 14 |
| • stranded | 24 14 |

| Installation/ mounting/ dimensions | |
|--|--|
| Mounting position | any |
| Mounting type | snap-on fastening on 35 mm standard rail |
| Height | 90 mm |
| Width | 17.5 mm |
| Depth | 66.7 mm |
| Required spacing | |
| with side-by-side mounting | |
| — forwards | 0 mm |
| — Backwards | 0 mm |
| — upwards | 0 mm |
| — downwards | 0 mm |
| — at the side | 0 mm |

| • for grounded parts | |
|----------------------|------|
| — forwards | 0 mm |
| — Backwards | 0 mm |
| — upwards | 0 mm |
| — at the side | 0 mm |
| — downwards | 0 mm |
| • for live parts | |
| — forwards | 0 mm |
| — Backwards | 0 mm |
| — upwards | 0 mm |
| — downwards | 0 mm |
| — at the side | 0 mm |
| | |

Ambient conditions

Installation altitude at height above sea level

• maximum 2 000 m

Relative humidity

• during operation 15 ... 85 %

Certificates/approvals

General Product Approval Declaration of Conformity Test Certificates









Miscellaneous

Type Test Certificates/Test Report

other

Confirmation

Further information

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=7PV1518-1AW30

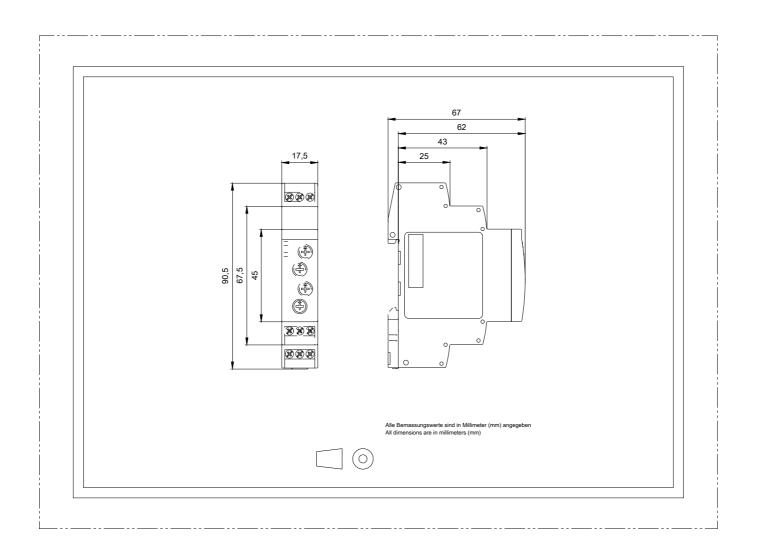
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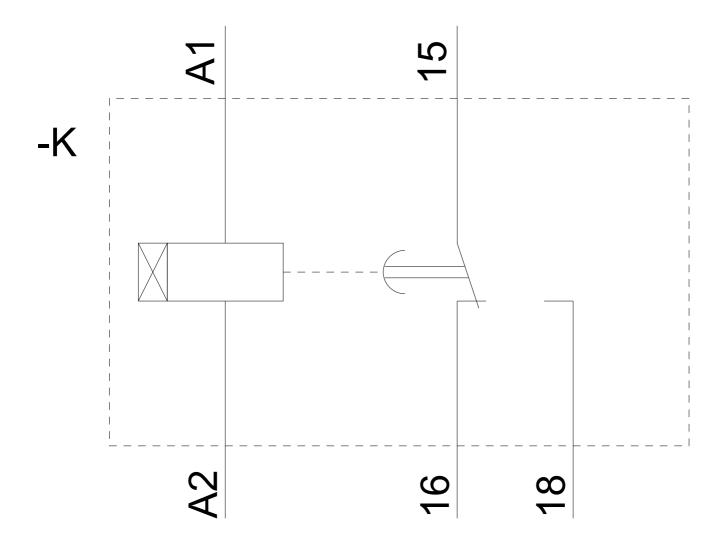
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=7PV1518-1AW30

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

https://support.industry.siemens.com/cs/ww/en/ps/7PV1518-1AW30

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=7PV1518-1AW30&lang=en





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