



Timing relay, electronic ON delay 1 change-over contact, 1 time range 0.5...10 s
24/110 V AC and 24 V DC with LED, 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] maximum | 2 W |
| insulation voltage for overvoltage category III according to IEC 60664 with degree of pollution 3 rated value | 300 V |
| 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 |
| shock resistance according to IEC 60068-2-27 | 11 g / 15 ms |
| vibration resistance according to IEC 60068-2-6 | 10 ... 55 Hz: 0.35 mm |
| mechanical service life (operating cycles) typical | 10 000 000 |
| electrical endurance (operating cycles) at AC-15 at 230 V typical | 100 000 |
| adjustable time | 0.5 ... 10 s |
| relative setting accuracy relating to full-scale value | 5 %; +/- |
| ON period/maximum minimum | 35 ms |
| recovery time | 500 ms |
| reference code according to IEC 81346-2 | K |
| relative repeat accuracy | 2 %; +/- |
| 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 |
| Substance Prohibitance (day/month/year) | 05/01/2012 |
| SVHC substance name | Lead CAS-No. 7439-92-1 Lead monoxide (lead oxide) CAS-No. 1317-36-8 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one CAS-No. 71868-10-5 Melamine CAS-No. 108-78-1 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol CAS-No. 119-47-1 |
| Net Weight | 0.066 kg |
| Control circuit/ Control | |
| type of voltage of the control supply voltage | AC/DC |
| control supply voltage at AC | |
| • at 50 Hz rated value | 100 ... 127 V |
| • at 60 Hz rated value | 100 ... 127 V |
| control supply voltage 1 at AC | |

| | |
|--|--|
| <ul style="list-style-type: none"> • at 50 Hz • at 60 Hz | 100 ... 127 V 100 ... 127 V |
| control supply voltage 2 at AC | |
| <ul style="list-style-type: none"> • at 50 Hz rated value • at 60 Hz rated value | 24 V 24 V |
| control supply voltage frequency 1 | 50 ... 60 Hz |
| control supply voltage at DC rated value | 24 V |
| control supply voltage 1 at DC rated value | 24 V |
| operating range factor control supply voltage rated value at DC | |
| <ul style="list-style-type: none"> • initial value • full-scale value | 0.85 1.1 |
| operating range factor control supply voltage rated value at AC at 50 Hz | |
| <ul style="list-style-type: none"> • initial value • full-scale value | 0.85 1.1 |
| operating range factor control supply voltage rated value at AC at 60 Hz | |
| <ul style="list-style-type: none"> • initial value • full-scale value | 0.85 1.1 |
| Switching Function | |
| switching function | |
| <ul style="list-style-type: none"> • ON-delay • ON-delay/instantaneous contact • passing make contact • passing make contact/instantaneous contact • OFF delay | Yes No No No No |
| switching function | |
| <ul style="list-style-type: none"> • flashing symmetrically with interval start/instantaneous • flashing symmetrically with interval start • flashing symmetrically with pulse start/instantaneous • flashing symmetrically with pulse start • flashing asymmetrically with interval start • flashing asymmetrically with pulse start | No No No No No No |
| switching function | |
| <ul style="list-style-type: none"> • star-delta circuit with delay time • star-delta circuit | No No |
| switching function with control signal | |
| <ul style="list-style-type: none"> • additive ON-delay • passing break contact • passing break contact/instantaneous • OFF delay • OFF delay/instantaneous • pulse delayed • pulse delayed/instantaneous • pulse-shaping • pulse-shaping/instantaneous • additive ON-delay/instantaneous • ON-delay/OFF-delay • ON-delay/OFF-delay/instantaneous • passing make contact • passing make contact/instantaneous contact | No No No No No No No No No No No No No No |
| switching function of interval relay with control signal | |
| <ul style="list-style-type: none"> • retrotriggerable with deactivated control signal/instantaneous contact • retrotriggerable with switched-on control signal • retrotriggerable with switched-on control signal/instantaneous contact • retriggerable with deactivated control signal | No No No No |
| design of the control terminal non-floating | No |

| 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 |
| operational current of auxiliary contacts at AC-15 | |
| • maximum | 3 A |
| • at 24 V | 3 A |
| • at 250 V | 3 A |
| operational current of auxiliary contacts as NC contact at AC-15 | |
| • at 24 V | 3 A |
| • at 250 V | 3 A |
| operational current of auxiliary contacts as NO contact at AC-15 | |
| • at 24 V | 3 A |
| • at 250 V | 3 A |
| operational current of auxiliary contacts at DC-13 | 1 ... 0.01 |
| operational 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 |
| 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 |
| ampacity of the output relay at AC-15 at 250 V at 50/60 Hz | 3 A |
| ampacity of the output relay at DC-13 | |
| • at 24 V | 1 A |
| • at 125 V | 0.22 A |
| Electromagnetic compatibility | |
| EMC immunity according to IEC 61812-1 | EN 61000-6-2 |
| conducted interference | |
| • due to burst according to IEC 61000-4-4 | 2 kV network connection / 1 kV control connection |
| • due to conductor-earth surge according to IEC 61000-4-5 | 2 kV |
| • due to conductor-conductor surge according to IEC 61000-4-5 | 1 kV |
| field-based interference according to IEC 61000-4-3 | 10 V/m |
| electrostatic discharge according to IEC 61000-4-2 | 4 kV contact discharge / 8 kV air discharge |
| Safety related data | |
| category according to EN 954-1 | none |
| Electrical Safety | |
| protection class IP on the front according to IEC 60529 | IP20 |
| type of insulation | Basic insulation |
| Connections/ Terminals | |
| product component removable terminal for auxiliary and | No |

| | |
|--|-------------------------------------|
| control circuit | |
| type of electrical connection | screw terminal |
| <ul style="list-style-type: none"> • for auxiliary and control circuit | screw-type terminals |
| type of connectable conductor cross-sections | |
| <ul style="list-style-type: none"> • solid | 1x (0.2 ... 2.5 mm ²) |
| <ul style="list-style-type: none"> • finely stranded with core end processing | 1x (0.25 ... 1.5 mm ²) |
| <ul style="list-style-type: none"> • finely stranded without core end processing | 1x (0.2 ... 1.5 mm ²) |
| <ul style="list-style-type: none"> • for AWG cables solid | 1x (24 ... 14) |
| <ul style="list-style-type: none"> • for AWG cables stranded | 1x (24 ... 14) |
| connectable conductor cross-section | |
| <ul style="list-style-type: none"> • solid | 0.2 ... 2.5 m ² |
| <ul style="list-style-type: none"> • finely stranded with core end processing | 0.25 ... 1.5 m ² |
| <ul style="list-style-type: none"> • finely stranded without core end processing | 0.2 ... 1.5 m ² |
| AWG number as coded connectable conductor cross section | |
| <ul style="list-style-type: none"> • solid | 24 ... 14 |
| <ul style="list-style-type: none"> • stranded | 24 ... 14 |
| Installation/ mounting/ dimensions | |
| mounting position | any |
| fastening method | snap-on fastening on 35 mm DIN rail |
| height | 90 mm |
| width | 17.5 mm |
| depth | 66.7 mm |
| required spacing | |
| <ul style="list-style-type: none"> • with side-by-side mounting <ul style="list-style-type: none"> — forwards — backwards — upwards — downwards — at the side | 0 mm |
| | 0 mm |
| | 0 mm |
| | 0 mm |
| | 0 mm |
| <ul style="list-style-type: none"> • for grounded parts <ul style="list-style-type: none"> — forwards — backwards — upwards — at the side — downwards | 0 mm |
| | 0 mm |
| | 0 mm |
| | 0 mm |
| | 0 mm |
| <ul style="list-style-type: none"> • for live parts <ul style="list-style-type: none"> — forwards — backwards — upwards — downwards — at the side | 0 mm |
| | 0 mm |
| | 0 mm |
| | 0 mm |
| | 0 mm |
| | 0 mm |
| Ambient conditions | |
| installation altitude at height above sea level maximum | 2 000 m |
| ambient temperature | |
| <ul style="list-style-type: none"> • during operation | -25 ... +55 °C |
| <ul style="list-style-type: none"> • during storage | -40 ... +70 °C |
| <ul style="list-style-type: none"> • during transport | -40 ... +70 °C |
| relative humidity during operation | 15 ... 85 % |
| Approvals Certificates | |
| Environmental Product Declaration | |
| <ul style="list-style-type: none"> • global warming potential [CO2 eq] / during manufacturing | 1.34 kg |
| <ul style="list-style-type: none"> • global warming potential [CO2 eq] / during operation | 21.2 kg |
| <ul style="list-style-type: none"> • global warming potential [CO2 eq] / after end of life | -0.156 kg |
| <ul style="list-style-type: none"> • global warming potential [CO2 eq] / total | 22.4 kg |
| Environment | General Product Approval |

[Environmental Con-
firmations](#)



| General Product Ap- proval | EMV | | Test Certificates | other | |
|-------------------------------|-----|--|--|------------------------------|------------------------------|
| | | | Type Test Certificates/Test Report | Confirmation | Confirmation |

other



Further information

Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

Information for data generation and storage

<https://support.industry.siemens.com/cs/ww/en/view/109995012>

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

<https://www.siemens.com/ic10>

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=7PV1512-1AQ30>

Cax online generator

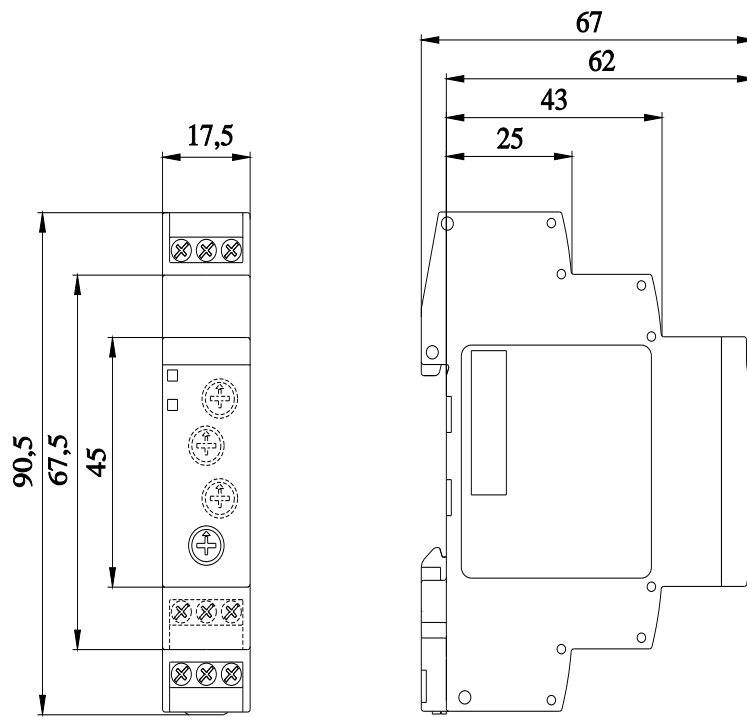
<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=7PV1512-1AQ30>

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

<https://support.industry.siemens.com/cs/ww/en/ps/7PV1512-1AQ30>

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

https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=7PV1512-1AQ30&lang=en



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

