SIEMENS

Data sheet 3RP2560-1SW30



Timing relay, electronic with star-delta (wye-delta) function 1-20 s, Overshoot time 30-600 s 3 NO contacts with common potential 12-240 V AC/DC at 50/60 Hz AC screw terminal 0.85 ...1.1 US

| product brand name | SIRIUS |
|---|---|
| product designation | timing relay |
| design of the product | Star-delta (wye-delta) function with overtravel function (idling) |
| product type designation | 3RP25 |
| General technical data | |
| product component | |
| relay output | Yes |
| 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 | 2.5 kV |
| degree of pollution | 3 |
| surge voltage resistance rated value | 4 000 V |
| shock resistance according to IEC 60068-2-27 | 11g / 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 | 1 20 s |
| relative setting accuracy relating to full-scale value | 5 %; +/- |
| thermal current | 5 A |
| recovery time | 300 ms |
| reference code according to IEC 81346-2 | K |
| relative repeat accuracy | 1 %; +/- |
| influence of the surrounding temperature | 1% in the whole temperature range to the set runtime |
| power supply influence | 1% in the whole voltage range to the set runtime |
| Substance Prohibitance (Date) | 09/12/2014 |
| SVHC substance name | Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 |
| Weight | 0.189 kg |
| Control circuit/ Control | |
| type of voltage of the control supply voltage | AC/DC |
| control supply voltage 1 at AC | |
| • at 50 Hz | 12 240 V |
| • at 60 Hz | 12 240 V |
| control supply voltage frequency 1 | 50 60 Hz |
| control supply voltage 1 at DC | 12 240 V |
| operating range factor control supply voltage rated value at | |

| DC | |
|--|-----------------|
| • initial value | 0.8 |
| • full-scale value | 1.1 |
| operating range factor control supply voltage rated value at AC at 50 Hz | |
| initial value | 0.8 |
| • full-scale value | 1.1 |
| operating range factor control supply voltage rated value at AC at 60 Hz | |
| • initial value | 0.8 |
| full-scale value | 1.1 |
| inrush current peak | |
| ● at 24 V | 0.5 A |
| • at 240 V | 5 A |
| duration of inrush current peak | |
| • at 24 V | 0.4 ms |
| • at 240 V | 0.5 ms |
| Switching Function | |
| switching function | N. |
| ON-delay ON-delay | No No |
| ON-delay/instantaneous contact paging make contact | No No |
| passing make contact | No No |
| passing make contact/instantaneous contact | No No |
| OFF delay Outline function | No |
| switching function | No |
| flashing symmetrically with interval start/instantaneous | No |
| flashing symmetrically with interval start | No No |
| flashing symmetrically with pulse start/instantaneous | No No |
| flashing symmetrically with pulse start | No No |
| flashing asymmetrically with interval start | No |
| flashing asymmetrically with pulse start | No |
| switching function | Van |
| star-delta circuit with delay time star-delta circuit | Yes |
| | 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 pulse delayed/instantaneous | No |
| pulse delayed/instantaneous pulse-shaping | No |
| pulse-shaping pulse-shaping/instantaneous | No |
| additive ON-delay/instantaneous | No |
| ON-delay/OFF-delay/instantaneous | No |
| passing make contact | No |
| passing make contact passing make contact/instantaneous contact | No |
| switching function of interval relay with control signal | |
| retrotriggerable with deactivated control signal/instantaneous contact | No |
| retrotriggerable with switched-on control signal | No |
| retrotriggerable with switched-on control signal/instantaneous contact | No |
| retriggerable with deactivated control signal | 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 | 2 |
| instantaneous contact | 1 |
| number of CO contacts | |
| delayed switching | 0 |
| • instantaneous contact | 0 |
| operational current of auxiliary contacts at AC-15 | |
| • at 24 V | 3 A |
| ● at 250 V | 3 A |
| operational current of auxiliary contacts at DC-13 | |
| ● at 24 V | 1 A |
| ● at 125 V | 0.2 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 | R300 / 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 |
| Electromagnetic compatibility | |
| EMC emitted interference according to IEC 61812-1 | ambience A (industrial sector) |
| EMC immunity according to IEC 61812-1 | corresponds to degree of severity 3 |
| 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 control circuit | Yes |
| type of electrical connection for auxiliary and control circuit | screw-type terminals |
| type of connectable conductor cross-sections | |
| • solid | 1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²) |
| finely stranded with core end processing | 1x (0.5 4 mm²), 2x (0.5 1.5 mm²) |
| for AWG cables solid | 1x (20 12), 2x (20 14) |
| for AWG cables stranded | 1x (20 12), 2x (20 14) |
| connectable conductor cross-section | |
| • solid | 0.5 4 mm² |
| finely stranded with core end processing | 0.5 4 mm² |
| AWG number as coded connectable conductor cross section | |
| • solid | 20 12 |
| stranded | 20 14 |
| tightening torque | 0.6 0.8 N·m |
| design of the thread of the connection screw | M3 |
| Installation/ mounting/ dimensions | |
| mounting position | any |
| fastening method | screw and snap-on mounting onto 35 mm DIN rail |
| height | 100 mm |
| width | 22.5 mm |
| depth | 90 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 |
| ambient temperature | |
| during operation | -25 +60 °C |
| during storage | -40 +85 °C |
| during transport | -40 +85 °C |
| relative humidity during operation | 10 95 % |
| Approvals Certificates | |
| | |

General Product Approval





Confirmation







EMV Test Certificates Marine / Shipping



<u>KC</u>

Type Test Certificates/Test Report







Marine / Shipping other **Environment**







Confirmation

Environmental Confirmations

Information on the packaging

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

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=3RP2560-1SW30

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RP2560-1SW30

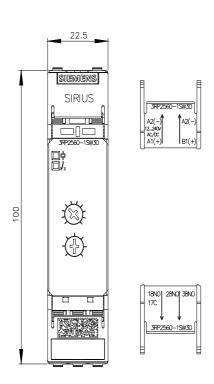
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RP2560-1SW30

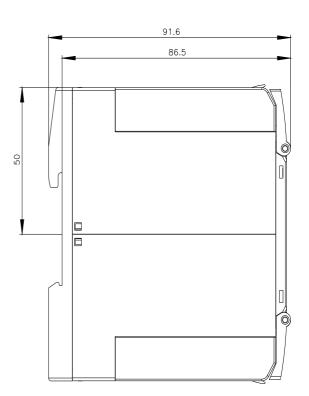
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

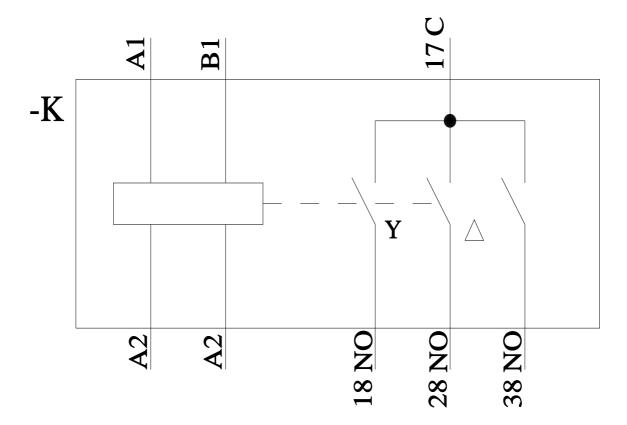
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RP2560-1SW30&lang=en

Characteristic: Derating

siemens.com/cs/ww/en/ps/3RP2560-1SW30/manual







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