



Timing relay, electronic with star-delta (wye-delta) function 1 NO delayed 1 NO instantaneous 1 time range, 3...60 s 200-240 V AC and 380-440 V AC with LED, Spring-type terminal (push-in)

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|---|---|
| product brand name | SIRIUS |
| product designation | timing relay |
| design of the product | Star-delta (wye-delta) function |
| product type designation | 3RP25 |
| General technical data | |
| product feature protective coating on printed-circuit board | No |
| 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 | 500 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 | 3 ... 60 s |
| relative setting accuracy relating to full-scale value | 5 %; +/- |
| thermal current | 5 A |
| recovery time | 150 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 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol - 119-47-1 |
| Weight | 0.15 kg |
| Control circuit/ Control | |
| type of voltage of the control supply voltage | AC |
| control supply voltage 1 at AC | |
| • at 50 Hz | 200 ... 240 V |
| • at 60 Hz | 200 ... 240 V |
| control supply voltage 2 at AC | |
| • at 50 Hz | 380 ... 440 V |

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| <ul style="list-style-type: none"> • at 60 Hz | 380 ... 440 V |
| control supply voltage frequency 1 | 50 ... 60 Hz |
| 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 |
| inrush current peak | |
| <ul style="list-style-type: none"> • at 240 V • at 440 V | 1 A 1.5 A |
| duration of inrush current peak | |
| <ul style="list-style-type: none"> • at 240 V • at 440 V | 0.2 ms 0.1 ms |
| 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 | No 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 Yes |
| 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/instantaneous • passing make contact • passing make contact/instantaneous contact | 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 |
| 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 | |
| <ul style="list-style-type: none"> • delayed switching • instantaneous contact | 0 0 |

| | |
|---|--|
| number of NO contacts | |
| • delayed switching | 1 |
| • 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 |
| • at 400 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 | spring-loaded terminals (push-in) |
| type of connectable conductor cross-sections | |
| • solid | 1x (0.5 ... 4 mm ²) |
| • finely stranded with core end processing | 1x (0.5 ... 2.5 mm ²) |
| • finely stranded without core end processing | 0.5 ... 4 mm ² |
| • for AWG cables solid | 1x (20 ... 12) |
| • for AWG cables stranded | 20 ... 12 |
| connectable conductor cross-section | |
| • solid | 0.5 ... 4 mm ² |
| • finely stranded with core end processing | 0.5 ... 2.5 mm ² |
| • finely stranded without core end processing | 0.5 ... 4 mm ² |
| AWG number as coded connectable conductor cross section | |
| • solid | 20 ... 12 |
| • stranded | 20 ... 12 |
| 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 | EMV |
|---|-----|
|       | |

| EMV | Test Certificates | Maritime application |
|--------------------|--|---|
| KC | Type Test Certificates/Test Report |     |

| Maritime application | other | Environment |
|---|---|---|
|   |  | Confirmation Environmental Conformations |

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=3RP2576-2NM20>
Cax online generator
<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RP2576-2NM20>
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
<https://support.industry.siemens.com/cs/ww/en/ps/3RP2576-2NM20>
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RP2576-2NM20&lang=en



