



Figure similar

TIMING RELAY, ELECTRONIC, OFF-DELAY, WITHOUT CONTROL SIGNAL OR NON-VOLATILE RELAY DEFINITE PASSING MAKE CONTACT, 7 T. SET. RANGES 0.05...600S, AC/DC 12-240 V, AT 50/60HZ AC, 2 CO CONTACTS, W. LED, SPRING-TYPE (PUSH-IN) TERMINAL

| General technical data: | | |
|--|----|---|
| product brand name | | SIRIUS |
| Product designation | | timing relay |
| mounting position | | any |
| Product function at the relay outputs Switchover delayed/without delay | | No |
| Product function non-volatile | | Yes |
| Product component | | |
| • Relay output | | Yes |
| • semi-conductor output | | No |
| Installation altitude at height above sea level maximum | m | 2 000 |
| Ambient temperature | | |
| • during operation | °C | -25 ... +60 |
| • during storage | °C | -40 ... +85 |
| • during transport | °C | -40 ... +85 |
| Relative humidity | | |
| • during operation | % | 15 ... 70 |
| EMC emitted interference acc. to IEC 61812-1 | | EN 61000-6-4(3) |
| EMI immunity acc. to IEC 61812-1 | | EN 61000-6-2 |
| Conducted interference BURST acc. to IEC 61000-4-4 | | 2 kV network connection / 1 kV control connection |
| Conducted interference conductor-earth SURGE acc. to IEC 61000-4-5 | | 2 kV |
| Conducted interference conductor-conductor SURGE acc. to IEC 61000-4-5 | | 1 kV |

| | | |
|---|-----|---|
| Electrostatic discharge acc. to IEC 61000-4-2 | | 4 kV contact discharge / 8 kV air discharge |
| Field-bound parasitic coupling acc. to IEC 61000-4-3 | | 10 V/m |
| Surge voltage resistance Rated value | V | 4 000 |
| Active power loss total typical | W | 2 |
| Reference code acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750 | | K |
| Reference code acc. to DIN EN 81346-2 | | K |
| Category acc. to EN 954-1 | | none |
| Protection against electrical shock | | finger-safe |
| Protection class IP | | IP20 |
| Mechanical service life (switching cycles) typical | | 10 000 000 |
| Electrical endurance (switching cycles) at AC-15 at 230 V typical | | 100 000 |
| Operating frequency with 3RT2 contactor maximum | 1/h | 5 000 |
| Shock resistance acc. to IEC 60068-2-27 | | 11g / 15 ms |
| Relative repeat accuracy | % | 1 |
| Recovery time | ms | 250 |
| Minimum ON period | ms | 200 |
| Degree of pollution | | 3 |
| Insulation voltage for overvoltage category III according to IEC 60664 with degree of pollution 3 Rated value | V | 300 |
| Relative setting accuracy relating to full-scale value | % | 5 |

Switching Function:

| | | |
|---|--|-----|
| Switching function | | |
| • ON-delay | | No |
| • ON-delay/instantaneous contact | | No |
| • passing make contact | | No |
| • passing make contact/instantaneous contact | | No |
| • OFF delay | | Yes |
| • flashing asymmetrically starting with interval | | No |
| • flashing asymmetrically starting with pulse | | No |
| • flashing symmetrically starting with pulse | | No |
| • flashing symmetrically starting with pulse/instantaneous | | No |
| • flashing symmetrically starting with interval | | No |
| • flashing symmetrically starting with interval/instantaneous | | No |
| • star-delta circuit | | No |
| • star-delta circuit with delay time | | No |
| Switching function with control signal | | |
| • additive ON delay | | No |
| • passing break contact | | No |

| | |
|--|----|
| • OFF delay | No |
| • pulse-shaping | No |
| • OFF delay/instantaneous | No |
| • ON-delay/OFF-delay/instantaneous | No |
| • passing break contact/instantaneous | No |
| • additive ON delay/instantaneous | No |
| • ON-delay/OFF-delay | No |
| • passing make contact | No |
| • passing make contact/instantaneous contact | No |
| • pulse delayed | No |
| • pulse delayed/instantaneous | No |
| • pulse-shaping/instantaneous | 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 |

Control circuit/ Control:

| | | |
|--|----|--------------|
| Adjustable time | s | 0.05 ... 600 |
| Type of voltage of the control supply voltage | | AC/DC |
| Control supply voltage frequency 1 | Hz | 50 ... 60 |
| Control supply voltage 1 | | |
| • with AC | | |
| — at 50 Hz | V | 12 ... 240 |
| — at 60 Hz | V | 12 ... 240 |
| • for DC | V | 12 ... 240 |
| Operating range factor control supply voltage rated value | | |
| • with AC | | |
| — at 50 Hz | | 0.85 ... 1.1 |
| — at 60 Hz | | 0.85 ... 1.1 |
| • for DC | | 0.85 ... 1.1 |

Auxiliary circuit:

| | | |
|--|---|--|
| Contact reliability of the auxiliary contacts | | one incorrect switching operation of 100 million switching operations (17 V, 5 mA) |
| Material of switching contacts | | AgSnO2 |
| Operating current of the auxiliary contacts | | |
| • at AC-15 | | |
| — at 24 V | A | 3 |
| — at 250 V | A | 3 |

| | | |
|---|---|-----------------|
| <ul style="list-style-type: none"> • at DC-13 <ul style="list-style-type: none"> — at 24 V — at 125 V — at 250 V | A | 1 |
| | A | 0.2 |
| | A | 0.1 |
| Design of the fuse link for short-circuit protection of the auxiliary switch required | | fuse gL/gG: 4 A |
| Thermal current | A | 5 |
| Switching capacity current | | |
| <ul style="list-style-type: none"> • with inductive load | A | 0.01 ... 3 |
| Number of NC contacts | | |
| <ul style="list-style-type: none"> • delayed switching • instantaneous contact | | 0 |
| | | 0 |
| Number of NO contacts | | |
| <ul style="list-style-type: none"> • delayed switching • instantaneous contact | | 0 |
| | | 0 |
| Number of CO contacts | | |
| <ul style="list-style-type: none"> • delayed switching • instantaneous contact | | 2 |
| | | 0 |

Installation/ mounting/ dimensions:

| | | |
|--|----|--|
| Mounting type | | screw and snap-on mounting onto 35 mm standard mounting rail |
| Width | mm | 22.5 |
| Height | mm | 100 |
| Depth | mm | 90 |
| Spacing required with side-by-side mounting | | |
| <ul style="list-style-type: none"> • upwards • forwards • at the side • Backwards • downwards | mm | 0 |
| | mm | 0 |
| Spacing required for grounded parts | | |
| <ul style="list-style-type: none"> • Backwards • at the side • upwards • forwards • downwards | mm | 0 |
| | mm | 0 |
| Spacing required for live parts | | |
| <ul style="list-style-type: none"> • downwards • Backwards • at the side • forwards • upwards | mm | 0 |
| | mm | 0 |

Connections/ Terminals:

| | | |
|--|--|--|
| Design of the electrical connection for auxiliary and control current circuit | | PUSH-IN connection (spring-loaded connection) |
| Type of connectable conductor cross-section <ul style="list-style-type: none">• solid• finely stranded<ul style="list-style-type: none">— without core end processing— with core end processing• for AWG conductors<ul style="list-style-type: none">— solid | | 0.5 ... 4 mm ² 0.5 ... 4 mm ² 0.5 ... 2.5 mm ² 20 ... 12 |

Certificates/ approvals:

| General Product Approval | Declaration of Conformity | other |
|--------------------------|---------------------------|-------|
|--------------------------|---------------------------|-------|



[Environmental Confirmations](#)

Further information

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

<http://www.siemens.com/industrial-controls/catalogs>

Industry Mall (Online ordering system)

<http://www.siemens.com/industrymall>

Cax online generator

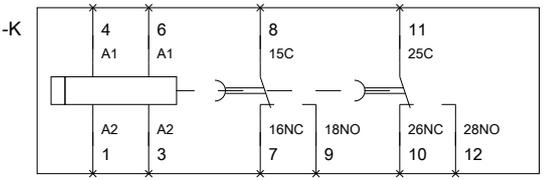
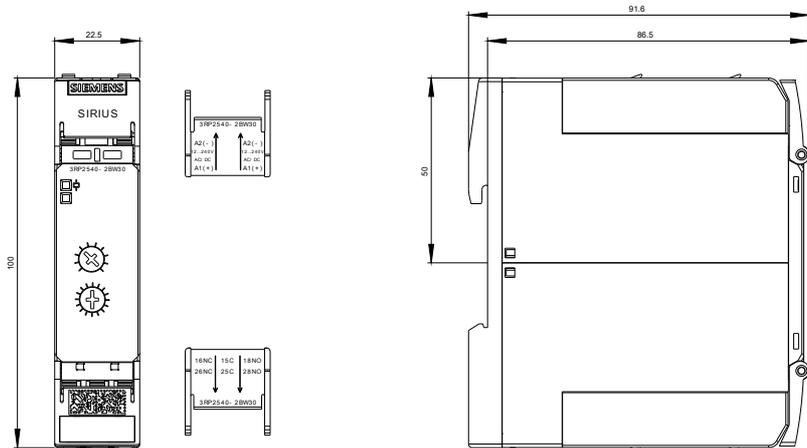
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RP25402BW30>

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

<http://support.automation.siemens.com/WW/view/en/3RP25402BW30/all>

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

<http://www.automation.siemens.com/bilddb/index.aspx?attID9=3RP25402BW30&lang=en>



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