



TIMING RELAY, ELECTRONIC, OFF-DELAY, WITHOUT CONTROL SIGNAL OR NON-VOLATILE RELAY DEFINITE PASSING MAKE CONTACT, 7 T. SET. RANGES 0.05S...600S, 24 V AC/DC, 2 CO CONTACTS W. LED, SPRING-TYPE (PUSH-IN) TERMINAL

Figure similar

| 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                                     | %  | 10 ... 95       |
| 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 due to burst acc. to IEC 61000-4-4                                                     |     | 2 kV network connection / 1 kV control connection |
| Conducted interference due to conductor-earth surge acc. to IEC 61000-4-5                                     |     | 2 kV                                              |
| Conducted interference due to 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                                             |
| Power loss [W] total typical                                                                                  | W   | 2                                                 |
| Equipment marking acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750                           |     | K                                                 |
| Equipment marking 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                                             |
| Vibration resistance acc. to IEC 60068-2-6                                                                    |     | 10 ... 55 Hz / 0.35 mm                            |
| 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
- ON-delay/instantaneous contact
- passing make contact
- passing make contact/instantaneous contact
- OFF delay
- flashing asymmetrically starting with interval
- flashing asymmetrically starting with pulse
- flashing symmetrically starting with pulse
- flashing symmetrically starting with pulse/instantaneous
- flashing symmetrically starting with interval

No  
No  
No  
No  
Yes  
No  
No  
No  
No  
No

|                                                                                                                                                                                             |    |                                                                                    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• flashing symmetrically starting with interval/instantaneous</li> <li>• star-delta circuit</li> <li>• star-delta circuit with delay time</li> </ul> |    | No                                                                                 |
|                                                                                                                                                                                             |    | No                                                                                 |
|                                                                                                                                                                                             |    | No                                                                                 |
| <b>Switching function with control signal</b>                                                                                                                                               |    |                                                                                    |
| <ul style="list-style-type: none"> <li>• additive ON delay</li> </ul>                                                                                                                       |    | No                                                                                 |
| <ul style="list-style-type: none"> <li>• passing break contact</li> </ul>                                                                                                                   |    | No                                                                                 |
| <ul style="list-style-type: none"> <li>• OFF delay</li> </ul>                                                                                                                               |    | No                                                                                 |
| <ul style="list-style-type: none"> <li>• pulse-shaping</li> </ul>                                                                                                                           |    | No                                                                                 |
| <ul style="list-style-type: none"> <li>• OFF delay/instantaneous</li> </ul>                                                                                                                 |    | No                                                                                 |
| <ul style="list-style-type: none"> <li>• ON-delay/OFF-delay/instantaneous</li> </ul>                                                                                                        |    | No                                                                                 |
| <ul style="list-style-type: none"> <li>• passing break contact/instantaneous</li> </ul>                                                                                                     |    | No                                                                                 |
| <ul style="list-style-type: none"> <li>• additive ON delay/instantaneous</li> </ul>                                                                                                         |    | No                                                                                 |
| <ul style="list-style-type: none"> <li>• ON-delay/OFF-delay</li> </ul>                                                                                                                      |    | No                                                                                 |
| <ul style="list-style-type: none"> <li>• passing make contact</li> </ul>                                                                                                                    |    | No                                                                                 |
| <ul style="list-style-type: none"> <li>• passing make contact/instantaneous contact</li> </ul>                                                                                              |    | No                                                                                 |
| <ul style="list-style-type: none"> <li>• pulse delayed</li> </ul>                                                                                                                           |    | No                                                                                 |
| <ul style="list-style-type: none"> <li>• pulse delayed/instantaneous</li> </ul>                                                                                                             |    | No                                                                                 |
| <ul style="list-style-type: none"> <li>• pulse-shaping/instantaneous</li> </ul>                                                                                                             |    | No                                                                                 |
| <b>Switching function of interval relay with control signal</b>                                                                                                                             |    |                                                                                    |
| <ul style="list-style-type: none"> <li>• retrotriggerable with deactivated control signal/instantaneous contact</li> </ul>                                                                  |    | No                                                                                 |
| <ul style="list-style-type: none"> <li>• retrotriggerable with activated control signal</li> </ul>                                                                                          |    | No                                                                                 |
| <ul style="list-style-type: none"> <li>• retrotriggerable with activated control signal/instantaneous contact</li> </ul>                                                                    |    | No                                                                                 |
| <ul style="list-style-type: none"> <li>• retriggerable with deactivated control signal</li> </ul>                                                                                           |    | No                                                                                 |
| <b>Control circuit/ Control:</b>                                                                                                                                                            |    |                                                                                    |
| <b>Adjustable time</b>                                                                                                                                                                      | s  | 0.05 ... 600                                                                       |
| <b>Type of voltage of the control supply voltage</b>                                                                                                                                        |    | AC/DC                                                                              |
| <b>Control supply voltage frequency 1</b>                                                                                                                                                   | Hz | 50 ... 60                                                                          |
| <b>Operating range factor control supply voltage rated value</b>                                                                                                                            |    |                                                                                    |
| <ul style="list-style-type: none"> <li>• at AC <ul style="list-style-type: none"> <li>— at 50 Hz</li> <li>— at 60 Hz</li> </ul> </li> <li>• at DC</li> </ul>                                |    | 0.85 ... 1.1<br>0.85 ... 1.1<br>0.85 ... 1.1                                       |
| <b>Auxiliary circuit:</b>                                                                                                                                                                   |    |                                                                                    |
| <b>Contact reliability of auxiliary contacts</b>                                                                                                                                            |    | one incorrect switching operation of 100 million switching operations (17 V, 5 mA) |
| <b>Material of switching contacts</b>                                                                                                                                                       |    | AgSnO2                                                                             |
| <b>Operating current of auxiliary contacts</b>                                                                                                                                              |    |                                                                                    |
| <ul style="list-style-type: none"> <li>• at AC-15</li> </ul>                                                                                                                                |    |                                                                                    |

|                                                                                              |   |                 |
|----------------------------------------------------------------------------------------------|---|-----------------|
| — at 24 V                                                                                    | A | 3               |
| — at 250 V                                                                                   | A | 3               |
| • at DC-13                                                                                   |   |                 |
| — at 24 V                                                                                    | A | 1               |
| — at 125 V                                                                                   | A | 0.2             |
| — at 250 V                                                                                   | A | 0.1             |
| <b>Design of the fuse link for short-circuit protection of the auxiliary switch required</b> |   | fuse gL/gG: 4 A |
| <b>Thermal current</b>                                                                       | A | 5               |
| Switching capacity current with inductive load                                               | A | 0.01 ... 3      |
| <b>Number of NC contacts</b>                                                                 |   |                 |
| • delayed switching                                                                          |   | 0               |
| • instantaneous contact                                                                      |   | 0               |
| <b>Number of NO contacts</b>                                                                 |   |                 |
| • delayed switching                                                                          |   | 0               |
| • instantaneous contact                                                                      |   | 0               |
| <b>Number of CO contacts</b>                                                                 |   |                 |
| • delayed switching                                                                          |   | 2               |
| • instantaneous contact                                                                      |   | 0               |

#### Installation/ mounting/ dimensions:

|                                                    |    |                                                              |
|----------------------------------------------------|----|--------------------------------------------------------------|
| <b>Mounting type</b>                               |    | screw and snap-on mounting onto 35 mm standard mounting rail |
| <b>Width</b>                                       | mm | 22.5                                                         |
| <b>Height</b>                                      | mm | 100                                                          |
| <b>Depth</b>                                       | mm | 90                                                           |
| <b>Required spacing with side-by-side mounting</b> |    |                                                              |
| • upwards                                          | mm | 0                                                            |
| • forwards                                         | mm | 0                                                            |
| • at the side                                      | mm | 0                                                            |
| • Backwards                                        | mm | 0                                                            |
| • downwards                                        | mm | 0                                                            |
| <b>Required spacing for grounded parts</b>         |    |                                                              |
| • Backwards                                        | mm | 0                                                            |
| • at the side                                      | mm | 0                                                            |
| • upwards                                          | mm | 0                                                            |
| • forwards                                         | mm | 0                                                            |
| • downwards                                        | mm | 0                                                            |
| <b>Required spacing for live parts</b>             |    |                                                              |
| • downwards                                        | mm | 0                                                            |
| • Backwards                                        | mm | 0                                                            |
| • at the side                                      | mm | 0                                                            |
| • forwards                                         | mm | 0                                                            |

- upwards

|    |   |
|----|---|
| mm | 0 |
|----|---|

#### Connections/ Terminals:

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

#### Certificates/ approvals:

| General Product Approval                                                                 | Declaration of Conformity                                                               | other                                                                                           |
|------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| <br>CCC | <br>UL | <br>EG-Konf. |
| <br>CSA |        | <a href="#">Umweltbestätigung</a>                                                               |

#### 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

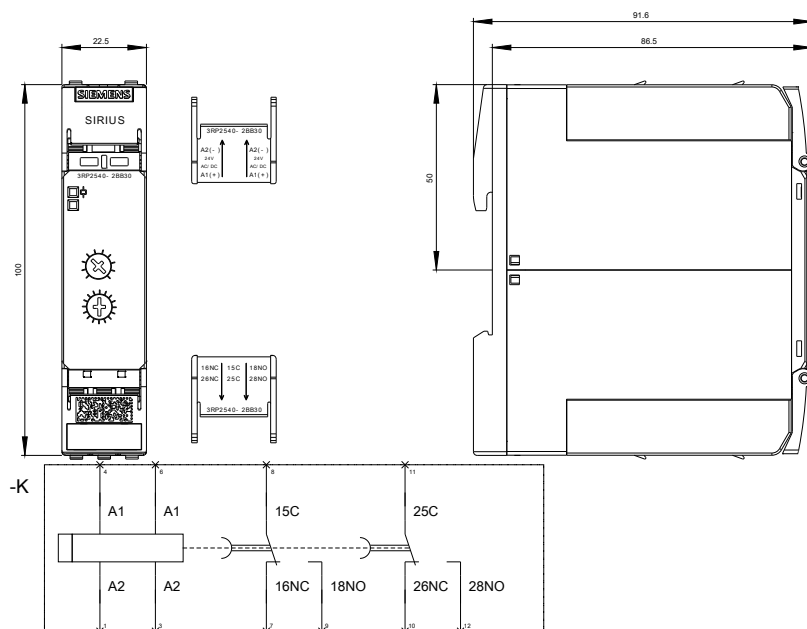
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RP25402BB30>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RP25402BB30>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RP25402BB30&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RP25402BB30&lang=en)



last modified:

08.02.2016