



Figure similar

TIMING RELAY, ELECTRONIC, OFF-DELAY, WITHOUT CONTROL SIGNAL OR NON-VOLATILE RELAY DEFINITE PASSING MAKE CONTACT, 7 T. SET. RANGES 0.05S...600S, 12-240 V AC/DC, AT 50/60HZ AC 1 CO CONTACT 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                                                      |    | Yes                                               |
| • Relay output                                                         |    | No                                                |
| • semi-conductor output                                                |    |                                                   |
| 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:

|                                                               |  |     |
|---------------------------------------------------------------|--|-----|
| <b>Switching function</b>                                     |  |     |
| • 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  |
| <b>Switching function with control signal</b>                 |  |     |
| • 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 |
| <b>Switching function of interval relay with control signal</b>          |    |
| • 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:

|                                                                  |    |              |
|------------------------------------------------------------------|----|--------------|
| <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>Control supply voltage 1</b>                                  |    |              |
| • with AC                                                        |    |              |
| — at 50 Hz                                                       | V  | 12 ... 240   |
| — at 60 Hz                                                       | V  | 12 ... 240   |
| • for DC                                                         | V  | 12 ... 240   |
| <b>Operating range factor control supply voltage rated value</b> |    |              |
| • with AC                                                        |    |              |
| — at 50 Hz                                                       |    | 0.85 ... 1.1 |
| — at 60 Hz                                                       |    | 0.85 ... 1.1 |
| • for DC                                                         |    | 0.85 ... 1.1 |

#### Auxiliary circuit:

|                                                      |   |                                                                                    |
|------------------------------------------------------|---|------------------------------------------------------------------------------------|
| <b>Contact reliability of the 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 the auxiliary contacts</b>   |   |                                                                                    |
| • at AC-15                                           |   |                                                                                    |
| — at 24 V                                            | A | 3                                                                                  |
| — at 250 V                                           | A | 3                                                                                  |

|                                                                                                                                                                   |   |                 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-----------------|
| <ul style="list-style-type: none"> <li>• at DC-13 <ul style="list-style-type: none"> <li>— at 24 V</li> <li>— at 125 V</li> <li>— at 250 V</li> </ul> </li> </ul> | A | 1               |
|                                                                                                                                                                   | A | 0.2             |
|                                                                                                                                                                   | 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               |
| <b>Switching capacity current</b> <ul style="list-style-type: none"> <li>• with inductive load</li> </ul>                                                         | A | 0.01 ... 3      |
| <b>Number of NC contacts</b> <ul style="list-style-type: none"> <li>• delayed switching</li> <li>• instantaneous contact</li> </ul>                               |   | 0<br>0          |
| <b>Number of NO contacts</b> <ul style="list-style-type: none"> <li>• delayed switching</li> <li>• instantaneous contact</li> </ul>                               |   | 0<br>0          |
| <b>Number of CO contacts</b> <ul style="list-style-type: none"> <li>• delayed switching</li> <li>• instantaneous contact</li> </ul>                               |   | 1<br>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>Spacing required with side-by-side mounting</b> <ul style="list-style-type: none"> <li>• upwards</li> <li>• forwards</li> <li>• at the side</li> <li>• Backwards</li> <li>• downwards</li> </ul> | mm<br>mm<br>mm<br>mm<br>mm | 0<br>0<br>0<br>0<br>0                                        |
| <b>Spacing required for grounded parts</b> <ul style="list-style-type: none"> <li>• Backwards</li> <li>• at the side</li> <li>• upwards</li> <li>• forwards</li> <li>• downwards</li> </ul>         | mm<br>mm<br>mm<br>mm<br>mm | 0<br>0<br>0<br>0<br>0                                        |
| <b>Spacing required for live parts</b> <ul style="list-style-type: none"> <li>• downwards</li> <li>• Backwards</li> <li>• at the side</li> <li>• forwards</li> <li>• upwards</li> </ul>             | mm<br>mm<br>mm<br>mm<br>mm | 0<br>0<br>0<br>0<br>0                                        |

#### Connections/ Terminals:

|                                                                                                                                                                                                                      |  |                                                          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------|
| <b>Design of the electrical connection for auxiliary and control current circuit</b>                                                                                                                                 |  | PUSH-IN connection (spring-loaded connection)            |
| <b>Type of connectable conductor cross-section</b>                                                                                                                                                                   |  |                                                          |
| <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>• for 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 |
|--------------------------|---------------------------|-------|
|--------------------------|---------------------------|-------|



[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**

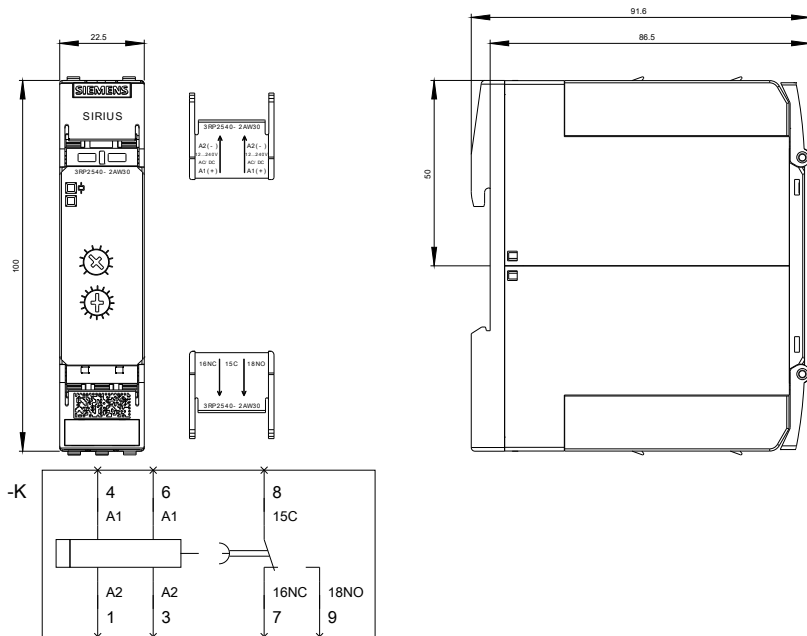
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RP25402AW30>

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

<http://support.automation.siemens.com/WW/view/en/3RP25402AW30/all>

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

<http://www.automation.siemens.com/bilddb/index.aspx?attID9=3RP25402AW30&lang=en>



last modified:

23.02.2015