



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 with LED, 0.85 ...1.1 US

|   |   |
|---|---|
| <b>product brand name</b>   | SIRIUS  |
| <b>product designation</b>  | timing relay  |
| <b>design of the product</b>  | Star-delta (wye-delta) function with overtravel function (idling) |
| <b>product type designation</b>   | 3RP25   |
| <b>General technical data</b>   |   |
| <b>product component</b>  |   |
| • relay output  | Yes   |
| • semi-conductor output   | No  |
| <b>product extension required remote control</b>  | No  |
| <b>product extension optional remote control</b>  | No  |
| <b>power loss [W] maximum</b>   | 2 W   |
| insulation voltage for overvoltage category III according to IEC 60664 with degree of pollution 3 rated value | 300 V   |
| <b>test voltage for isolation test</b>  | 2.5 kV  |
| <b>degree of pollution</b>  | 3   |
| <b>surge voltage resistance rated value</b>   | 4 000 V   |
| <b>protection class IP</b>  | IP20  |
| 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 (switching cycles) typical  | 10 000 000  |
| electrical endurance (switching cycles) at AC-15 at 230 V typical   | 100 000   |
| <b>adjustable time</b>  | 1 ... 20 s  |
| <b>relative setting accuracy relating to full-scale value</b>   | 5 %; +/-  |
| <b>thermal current</b>  | 5 A   |
| <b>recovery time</b>  | 300 ms  |
| <b>reference code according to IEC 81346-2</b>  | K   |
| <b>relative repeat accuracy</b>   | 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                  |
| <b>Substance Prohibitance (Date)</b>  | 09/12/2014  |
| <b>Control circuit/ Control</b>   |   |
| <b>type of voltage of the control supply voltage</b>  | AC/DC   |
| <b>control supply voltage 1 at AC</b>   |   |
| • at 50 Hz  | 12 ... 240 V  |
| • at 60 Hz  | 12 ... 240 V  |
| <b>control supply voltage frequency 1</b>   | 50 ... 60 Hz  |
| <b>control supply voltage 1</b>   |   |
| • at DC   | 12 ... 240 V  |
| <b>operating range factor control supply voltage rated</b>  |   |

|  |   |
|--|---|
| <b>value at DC</b>   |   |
| <ul style="list-style-type: none"> <li>initial value</li> <li>full-scale value</li> </ul>  | <p>0.8</p> <p>1.1</p>   |
| <b>operating range factor control supply voltage rated value at AC at 50 Hz</b>  |   |
| <ul style="list-style-type: none"> <li>initial value</li> <li>full-scale value</li> </ul>  | <p>0.8</p> <p>1.1</p>   |
| <b>operating range factor control supply voltage rated value at AC at 60 Hz</b>  |   |
| <ul style="list-style-type: none"> <li>initial value</li> <li>full-scale value</li> </ul>  | <p>0.8</p> <p>1.1</p>   |
| <b>inrush current peak</b>   |   |
| <ul style="list-style-type: none"> <li>at 24 V</li> <li>at 240 V</li> </ul>  | <p>0.5 A</p> <p>5 A</p>   |
| <b>duration of inrush current peak</b>   |   |
| <ul style="list-style-type: none"> <li>at 24 V</li> <li>at 240 V</li> </ul>  | <p>0.4 ms</p> <p>0.5 ms</p>   |
| <b>Switching Function</b>  |   |
| <b>switching function</b>  |   |
| <ul style="list-style-type: none"> <li>ON-delay</li> <li>ON-delay/instantaneous contact</li> <li>passing make contact</li> <li>passing make contact/instantaneous contact</li> <li>OFF delay</li> </ul>  | <p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p>   |
| <b>switching function</b>  |   |
| <ul style="list-style-type: none"> <li>flashing symmetrically with interval start/instantaneous</li> <li>flashing symmetrically with interval start</li> <li>flashing symmetrically with pulse start/instantaneous</li> <li>flashing symmetrically with pulse start</li> <li>flashing asymmetrically with interval start</li> <li>flashing asymmetrically with pulse start</li> </ul>  | <p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p>   |
| <b>switching function</b>  |   |
| <ul style="list-style-type: none"> <li>star-delta circuit with delay time</li> <li>star-delta circuit</li> </ul>   | <p>Yes</p> <p>No</p>  |
| <b>switching function with control signal</b>  |   |
| <ul style="list-style-type: none"> <li>additive ON-delay</li> <li>passing break contact</li> <li>passing break contact/instantaneous</li> <li>OFF delay</li> <li>OFF delay/instantaneous</li> <li>pulse delayed</li> <li>pulse delayed/instantaneous</li> <li>pulse-shaping</li> <li>pulse-shaping/instantaneous</li> <li>additive ON-delay/instantaneous</li> <li>ON-delay/OFF-delay/instantaneous</li> <li>passing make contact</li> <li>passing make contact/instantaneous contact</li> </ul> | <p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p> |
| <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> <li>retrotriggerable with switched-on control signal</li> <li>retrotriggerable with switched-on control signal/instantaneous contact</li> <li>retriggerable with deactivated control signal</li> </ul>  | <p>No</p> <p>No</p> <p>No</p> <p>No</p>   |
| <b>Short-circuit protection</b>  |   |
| design of the fuse link for short-circuit protection of the auxiliary switch required  | fuse gL/gG: 4 A   |
| <b>Auxiliary circuit</b>   |   |

|   |  |
|---|--|
| <b>material of switching contacts</b>   | AgSnO <sub>2</sub>   |
| <b>number of NC contacts</b>  |  |
| • delayed switching   | 0  |
| • instantaneous contact   | 0  |
| <b>number of NO contacts</b>  |  |
| • delayed switching   | 2  |
| • instantaneous contact   | 1  |
| <b>number of CO contacts</b>  |  |
| • delayed switching   | 0  |
| • instantaneous contact   | 0  |
| <b>operational current of auxiliary contacts at AC-15</b>                     |  |
| • at 24 V   | 3 A  |
| • at 250 V  | 3 A  |
| <b>operational current of auxiliary contacts at DC-13</b>                     |  |
| • at 24 V   | 1 A  |
| • at 125 V  | 0.2 A  |
| • at 250 V  | 0.1 A  |
| <b>operating frequency with 3RT2 contactor maximum</b>                        | 5 000 1/h  |
| <b>contact reliability of auxiliary contacts</b>                              | one incorrect switching operation of 100 million switching operations (17 V, 5 mA) |
| <b>contact rating of auxiliary contacts according to UL</b>                   | R300 / B300  |
| <b>switching capacity current with inductive load</b>                         | 0.01 ... 3 A   |
| <b>Inputs/ Outputs</b>  |  |
| <b>product function</b>   |  |
| • at the relay outputs switchover delayed/without delay                       | No   |
| • non-volatile  | No   |
| <b>Electromagnetic compatibility</b>  |  |
| 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  |
| <b>conducted interference</b>   |  |
| • 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   |
| <b>field-based interference according to IEC 61000-4-3</b>                    | 10 V/m   |
| <b>electrostatic discharge according to IEC 61000-4-2</b>                     | 4 kV contact discharge / 8 kV air discharge  |
| <b>Safety related data</b>  |  |
| <b>protection class IP on the front according to IEC 60529</b>                | IP20   |
| <b>type of insulation</b>   | Basic insulation   |
| <b>category according to EN 954-1</b>   | none   |
| <b>Connections/ Terminals</b>   |  |
| <b>product component removable terminal for auxiliary and control circuit</b> | Yes  |
| type of electrical connection for auxiliary and control circuit               | spring-loaded terminals (push-in)  |
| <b>type of connectable conductor cross-sections</b>                           |  |
| • solid   | 0.5 ... 4 mm <sup>2</sup>  |
| • finely stranded with core end processing                                    | 0.5 ... 2.5 mm <sup>2</sup>  |
| • finely stranded without core end processing                                 | 0.5 ... 4 mm <sup>2</sup>  |
| • at AWG cables solid   | 20 ... 12  |
| • at AWG cables stranded  | 20 ... 12  |
| <b>connectable conductor cross-section</b>                                    |  |
| • solid   | 0.5 ... 4 mm <sup>2</sup>  |
| • finely stranded with core end processing                                    | 0.5 ... 2.5 mm <sup>2</sup>  |
| • finely stranded without core end processing                                 | 0.5 ... 4 mm <sup>2</sup>  |
| <b>AWG number as coded connectable conductor cross section</b>                |  |
| • solid   | 20 ... 12  |
| • stranded  | 20 ... 12  |

| Installation/ mounting/ dimensions  |  |
|---|--|
| mounting position   | any  |
| fastening method  | screw and snap-on mounting onto 35 mm standard mounting rail |
| height  | 100 mm   |
| width   | 22.5 mm  |
| depth   | 90 mm  |
| required spacing  |  |
| <ul style="list-style-type: none"> <li>• with side-by-side mounting <ul style="list-style-type: none"> <li>— forwards 0 mm</li> <li>— backwards 0 mm</li> <li>— upwards 0 mm</li> <li>— downwards 0 mm</li> <li>— at the side 0 mm</li> </ul> </li> <li>• for grounded parts <ul style="list-style-type: none"> <li>— forwards 0 mm</li> <li>— backwards 0 mm</li> <li>— upwards 0 mm</li> <li>— at the side 0 mm</li> <li>— downwards 0 mm</li> </ul> </li> <li>• for live parts <ul style="list-style-type: none"> <li>— forwards 0 mm</li> <li>— backwards 0 mm</li> <li>— upwards 0 mm</li> <li>— downwards 0 mm</li> <li>— at the side 0 mm</li> </ul> </li> </ul> |  |

| Ambient conditions  |             |
|---|-------------|
| installation altitude at height above sea level maximum   | 2 000 m     |
| ambient temperature   |             |
| <ul style="list-style-type: none"> <li>• during operation -25 ... +60 °C</li> <li>• during storage -40 ... +85 °C</li> <li>• during transport -40 ... +85 °C</li> </ul> |             |
| relative humidity during operation  | 10 ... 95 % |

| Certificates/ approvals  |     |
|--------------------------|-----|
| General Product Approval | EMC |



[Confirmation](#)



| Declaration of Conformity | Test Certificates | Marine / Shipping |
|---------------------------|-------------------|-------------------|
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| Further information |
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**Industry Mall (Online ordering system)**

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RP2560-2SW30>

**Cax online generator**

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RP2560-2SW30>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RP2560-2SW30>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RP2560-2SW30&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RP2560-2SW30&lang=en)

**Characteristic: Derating**

<https://support.industry.siemens.com/cs/ww/en/ps/3RP2560-2SW30/manual>

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