



Timing relay, electronic Phased-out product !!! For further information, please contact our sales department Spring-type terminal 1 change-over contact clock generator 0.5 s...100 h 24 V AC/DC, 200-240 V AC with LED, at 50/60 Hz AC

|   |  |
|---|--|
| product brand name  | SIRIUS                                       |
| product designation   | timing relay                                 |
| product type designation  | 3RP15  |
| <b>General technical data</b>   |  |
| 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 | 300 V  |
| test voltage for isolation test   | 2 kV   |
| degree of pollution   | 3  |
| surge voltage resistance rated value  | 4 000 V                                      |
| shock resistance according to IEC 60068-2-27  | 11 g / 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   | 0.05 s ... 100 h                             |
| 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  | ±5 %   |
| power supply influence  | ±1 %   |
| Substance Prohibitance (day/month/year)   | 05/28/2009                                   |
| SVHC substance name   | Lead monoxide (lead oxide) CAS-No. 1317-36-8 |
| Net Weight  | 0.104 kg                                     |
| <b>Control circuit/ Control</b>   |  |
| type of voltage of the control supply voltage   | AC/DC  |
| control supply voltage at AC  |  |
| • at 50 Hz rated value  | 24 V   |
| • at 60 Hz rated value  | 24 V   |
| control supply voltage 1 at AC  |  |
| • at 50 Hz rated value  | 24 V   |
| • at 60 Hz rated value  | 24 V   |

|   |                 |
|---|-----------------|
| <b>control supply voltage 2 at AC</b>   |                 |
| • at 50 Hz  | 200 ... 240 V   |
| • at 60 Hz  | 200 ... 240 V   |
| <b>control supply voltage frequency 1</b>   | 50 ... 60 Hz    |
| <b>control supply voltage at DC rated value</b>                                       | 24 V            |
| <b>control supply voltage 1 at DC rated value</b>                                     | 24 V            |
| <b>operating range factor control supply voltage rated value at DC</b>                |                 |
| • initial value   | 0.85            |
| • full-scale value  | 1.1             |
| <b>operating range factor control supply voltage rated value at AC at 50 Hz</b>       |                 |
| • initial value   | 0.85            |
| • full-scale value  | 1.1             |
| <b>operating range factor control supply voltage rated value at AC at 60 Hz</b>       |                 |
| • initial value   | 0.85            |
| • full-scale value  | 1.1             |
| <b>Switching Function</b>   |                 |
| <b>switching function</b>   |                 |
| • ON-delay  | No              |
| • ON-delay/instantaneous contact  | No              |
| • passing make contact  | No              |
| • passing make contact/instantaneous contact  | No              |
| • OFF delay   | No              |
| <b>switching function</b>   |                 |
| • flashing symmetrically with interval start/instantaneous                            | No              |
| • flashing symmetrically with interval start  | No              |
| • flashing symmetrically with pulse start/instantaneous                               | No              |
| • flashing symmetrically with pulse start   | No              |
| • flashing asymmetrically with interval start   | Yes             |
| • flashing asymmetrically with pulse start  | No              |
| <b>switching function</b>   |                 |
| • star-delta circuit with delay time  | No              |
| • star-delta circuit  | No              |
| <b>switching function with control signal</b>   |                 |
| • additive ON-delay   | No              |
| • passing break contact   | No              |
| • passing break contact/instantaneous   | No              |
| • OFF delay   | No              |
| • OFF delay/instantaneous   | No              |
| • pulse delayed   | No              |
| • pulse delayed/instantaneous   | No              |
| • pulse-shaping   | No              |
| • pulse-shaping/instantaneous   | No              |
| • additive ON-delay/instantaneous   | No              |
| • ON-delay/OFF-delay/instantaneous  | No              |
| • passing make contact  | No              |
| • passing make contact/instantaneous contact  | No              |
| <b>switching function of interval relay with control signal</b>                       |                 |
| • retrotriggerable with deactivated control signal/instantaneous contact              | No              |
| • retrotriggerable with switched-on control signal                                    | No              |
| • retrotriggerable with switched-on control signal/instantaneous contact              | No              |
| • retriggeable with deactivated control signal  | No              |
| <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>   | AgSnO2   |
| <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   | 1  |
| • 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>Inputs/ Outputs</b>  |  |
| <b>product function</b>   |  |
| • non-volatile  | No   |
| <b>Electromagnetic compatibility</b>  |  |
| EMC emitted interference according to IEC 61812-1                             | EN 61000-6-4(3)  |
| EMC immunity according to IEC 61812-1   | EN 61000-6-2   |
| <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>  |  |
| category according to EN 954-1  | none   |
| <b>Electrical Safety</b>  |  |
| <b>protection class IP on the front according to IEC 60529</b>                | IP20   |
| <b>type of insulation</b>   | Basic insulation   |
| <b>Connections/ Terminals</b>   |  |
| <b>product component removable terminal for auxiliary and control circuit</b> | Yes  |
| <b>type of electrical connection</b>  |  |
| • for auxiliary and control circuit   | spring-loaded terminals  |
| <b>type of connectable conductor cross-sections</b>                           |  |
| • solid   | 2x (0.25 ... 1.5 mm <sup>2</sup> )   |
| • finely stranded with core end processing                                    | 2 x (0.25 ... 1.5 mm <sup>2</sup> )  |
| • finely stranded without core end processing                                 | 2x (0.25 ... 1.5 mm <sup>2</sup> )   |
| • for AWG cables solid  | 2x (24 ... 16)   |
| • for AWG cables stranded   | 2x (24 ... 16)   |
| <b>connectable conductor cross-section</b>                                    |  |
| • solid   | 0.3 ... 1.5 mm <sup>2</sup>  |
| • finely stranded with core end processing                                    | 0.3 ... 1.5 mm <sup>2</sup>  |
| • finely stranded without core end processing                                 | 0.3 ... 1.5 mm <sup>2</sup>  |
| <b>AWG number as coded connectable conductor cross section</b>                |  |
| • solid   | 24 ... 16  |
| • stranded  | 24 ... 16  |
| <b>Installation/ mounting/ dimensions</b>                                     |  |
| <b>mounting position</b>  | any  |

|   |  |
|---|--|
| <b>fastening method</b>   | screw and snap-on mounting onto 35 mm DIN rail |
| <b>height</b>   | 84 mm  |
| <b>width</b>  | 22.5 mm  |
| <b>depth</b>  | 91 mm  |
| <b>required spacing</b>   |  |
| <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     |
| <b>ambient temperature</b>  |             |
| <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 % |

#### Approvals Certificates

|                    |                                 |
|--------------------|---------------------------------|
| <b>Environment</b> | <b>General Product Approval</b> |
|--------------------|---------------------------------|

[Environmental Con-  
firmations](#)



|            |                          |                             |
|------------|--------------------------|-----------------------------|
| <b>EMV</b> | <b>Test Certificates</b> | <b>Maritime application</b> |
|------------|--------------------------|-----------------------------|



[Type Test Certifi-  
cates/Test Report](#)



|              |                |
|--------------|----------------|
| <b>other</b> | <b>Railway</b> |
|--------------|----------------|

[Confirmation](#)



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cate](#)

#### 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?mfb=3RP1555-2AP30>

Cax online generator

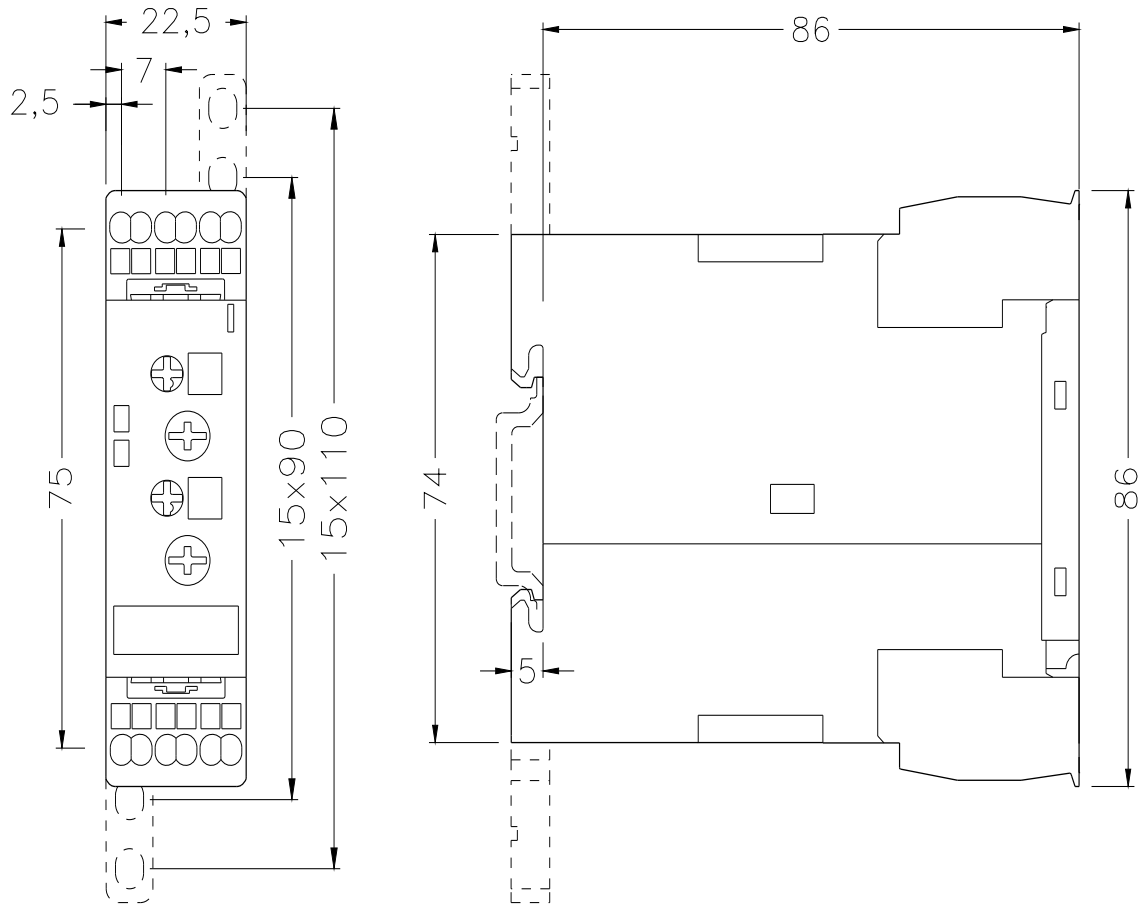
<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RP1555-2AP30>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RP1555-2AP30>

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

[https://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RP1555-2AP30&lang=en](https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RP1555-2AP30&lang=en)



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